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CITY DOCUMENTS

OF THE

CITY OF LOWELL,

FOR THE YEAR 1871-72.



LOWELL, MASS: STONE & HUSE, PRINTERS, VOX POPULI OFFICE, 21 CENTRAL STREET. 1872.

EXTRACT FROM THE ORDINANCES OF LOWELL.

CHAPTER V.—CITY DOCUMENTS.

SECTION 1. The following City Documents shall be printed in pamphlet form of the size of the Annual Report of the School Committee, to wit: Mayor's Address; Auditor's Annual Report; Annual Report of the Directors of the City Library; Annual Report of the Superintendent of Burials; Annual Report of the Chief Engineer of the Fire Department; and Municipal Register.

Section 2. All City Documents shall annually be bound together in one volume, under the direction of the City Clerk, a copy of which shall be deposited in the City Library; in the Middlesex Mechanics' Association in Lowell; and one copy shall be sent to each city of the Commonwealth, the Library of Harvard College, the Public Library of Boston, and the Smithsonian Institute at Washington.

CONTENTS.

- Inaugural Address of His Honor, Josiah G. Peabody, Mayor of the City of Lowell, to the two branches of the City Council, January 1, 1872.
- Municipal Register, containing Rules and Orders of the City Council, and a list of the Government and Officers of the City of Lowell for 1872.
- Forty-Sixth Annual Report of the School Committee of the City of Lowell, together with the Eighth Annual Report of the Superintendent of Public Schools, for 1871.
- The Auditor's Thirty-Sixth Annual Report of the Receipts and Expenditures of the City of Lowell; together with the Treasurer's Account, for the Financial Year ending December 31, 1871.
- 5. Salaries of the Officers of the City of Lowell, for the year 1872-3.
- 6. Annual Report of the Directors of the City Library, for the year 1871.
- 7. Annual Report of the City Physician and Superintendent of Burials, for the year 1871.
- Annual Report of the Engineers of the Lowell Fire Department, for the year ending March 31, 1872.
- Second Annual Report of the Water Commissioners of the City of Lowell, to the Joint Standing Committee of the City Council on Water Works.
- 10. Reports of the Board of Health, and of the Consulting Physicians (for 1871.)



INAUGURAL ADDRESS

OF

HIS HONOR

JOSIAH G. PEABODY,

MAYOR OF THE CITY OF LOWELL,

то тяв

TWO BRANCHES OF THE CITY COUNCIL,

JANUARY 1, 1872.



LOWELL, MASS: STONE & HUSE, BOOK AND JOB PRINTERS, 21 CENTRAL STREET. 1872.



CITY OF LOWELL.

IN COMMON COUNCIL, January 1st, 1872.

ORDERED, If the Board of Aldermen concur, That his Honor the Mayor be requested to furnish a copy of his Address for publication.

In Common Council, January 1st, 1872.

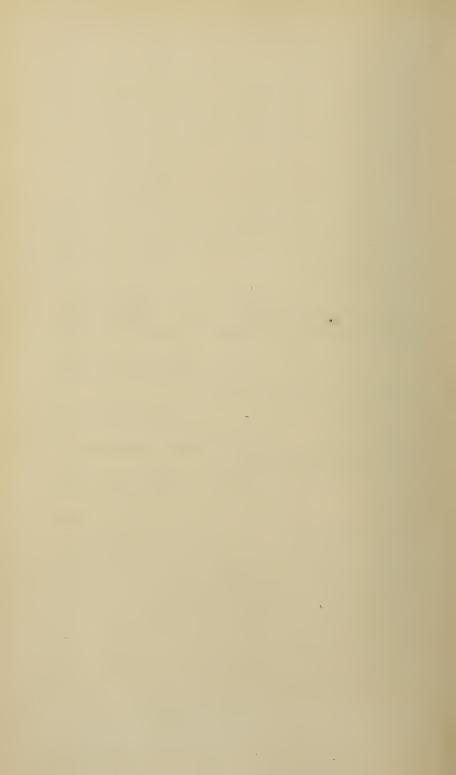
Read and adopted; sent up for concurrence.

GEO. GARDNER, Clerk.

In Board of Aldermen, January 1st, 1872.

Read and adopted in concurrence.

SAMUEL A. McPhetres, City Clerk.



ADDRESS.

Gentlemen of the City Council:

It is an axiom coeval with our national existence, that "governments are instituted among men deriving their just powers from the consent of the governed." In accordance with this principle, our fellow-citizens, confiding in our integrity, competency, and fidelity, have elected us to perform for them, for a limited period, certain duties which it is impracticable for them to perform in their collective capacity. These duties comprise the care and oversight of the peace, morals and good order of the city—protection from the ravages of fire, the repair and construction of streets, the care of the poor, the preservation as far practicable of the general health, and the provision of means for the general education of youth.

Our powers relating to these subjects are well-defined in the general laws of the Common-

wealth, and the ordinances of the city; the latter changeable at our pleasure. To us is committed to a certain extent the interests and material prosperity of the city. Measures, the coming year, affecting the growth and prosperity of our city, will force themselves upon our attention. It will be our duty to examine closely the merits of all measures proposed, discriminating wisely between a parsimonious policy on one hand, and a lavish expenditure on the other, approving only such measures as shall tend to the general welfare of all.

The positions we occupy have been voluntarily assumed; in so doing we have given our implied pledge of honor, to be true to the interests of our constituents. We have unitedly invoked the Divine assistance in the discharge of our duties, and, in the presence of our fellow-citizens, before God, have taken a solemn oath to the faithful discharge of the duties and responsibilities resting upon us.

For myself, having been called without solicitation on my part, to the honorable position I am to occupy, I tender to my fellow-citizens most grateful acknowledgments for the confidence reposed in me; and, in return, can only pledge, myself, guided by past experience, and assisted

by your generous co-operation, to devote my best energies to their welfare.

Without detaining you longer on these topics, I will pass to the consideration of the several departments over which you will be called to preside, giving an exhibit of the condition of each, and making such suggestions for improvement as I have been able to consider in the limited time allowed me.

SCHOOLS.

Of all the duties imposed upon us, the provision of means for the educational interests of our children stands most prominent. In whatever other department we may be disposed to require retrenchment, we cannot safely allow it here. It is my opinion that on a system of general education, and the principles fostered and sustained by our free schools, rests the perpetuity of our free institutions.

The public schools of Lowell have attained a high position, and it should be our aim, so far as depends upon us, to sustain their present reputation. The care and supervision of the schools devolves upon a separate and independent department of the government. It is our duty to provide all needed facilities for their support. There are at the present time one High School, with eight teachers; eight Grammar Schools, with fifty-three teachers, and fifty-two Primaries, with an equal number of teachers; making an aggregate of sixty-one schools, and one hundred and thirteen teachers, exclusive of the teachers of penmanship and music.

For the details of the operations and condition of the schools, I refer you to the reports of the School Committee and Superintendent, which will soon be laid before you.

EVENING SCHOOLS.

Two free evening schools were opened on the 14th of November last, holding three sessions each week. One on Middle Street, with sixteen teachers, and an average attendance of two hundred and fifty pupils. The other school is in the Free Chapel on Middlesex Street, with eleven teachers and an average attendance of one hundred and seventy-five pupils. The deportment and progress of those attending these schools is represented to be quite satisfactory to the teachers and committees having them in charge.

The amount standing to the credit of the appropriation for schools, January 1st, 1871, was \$97,270.10; expenditures, \$89,770.14; balance undrawn, \$7,499.96.

SCHOOL - HOUSES.

During the past year two new houses, each to accommodate two primary schools, have been erected, one on Ames Street, and one on Central Street, on the former site of No. 18. An additional story has been made to the building occupied by School No. 4, on Chapel Street, thus giving additional accommodations for these schools. which it is probable will afford all needed accommodations in that section of the city for several years. During the past year the subject of a new school-house on Powell Street, was discussed by our predecessors. It has been urged as necessary to afford better accommodations for the primary school located there, and the establishment of a Grammar School for the convenience of the residents in that portion of the city. It is true that the scholars in that vicinity, qualified for the Grammar School, are quite remote from either the Edson or Franklin Schools. It is

certain that additional accommodations for a Grammar School for that section will in the future be required.

Judging from the best information I have been able to obtain, there is no absolute necessity for immediate action in the premises. The rapid and extensive growth of our city in that portion located between Liberty and Middlesex Streets would seem to indicate that the time is not far distant when the accommodations in the Franklin School will be insufficient for the population of that section. I would suggest that when action is taken it would be better to locate a school on the high ground in the vicinity of Liberty or Westford Streets, as the most convenient for that section of the city. I would call your attention to the subject of a new school building for the accommodation of Primary No. 48, on Coburn Street. The house now occupied is situated on low ground; the premises frequently in time of freshets are partly inundated by water, and in my judgment highly prejudicial to the health and comfort of the school. I would recommend that a new building be erected on the high ground north of the present house, with accommodations for two schools. The rapid increase in the population of that vicinity renders it probable that an additional

school will soon be required. It is probable that better accommodations will be required for the Primary Schools on Fayette Street. One is now kept in the ward-room, which is not adapted for the purpose. I am not informed as to what is particularly required. The School Committee will doubtless consider the subject, and make suitable request of the City Council.

I desire in this connection to call your attention to the expediency of selling the house on Middle Street, formerly occupied by the Green School. The value of the property is variously estimated at from fifteen to twenty thousand dollars, and is now occupied by two primary schools. In 1869, the necessity of a new schoolhouse for the Green School was urged, mainly on the grounds of annoyance of the mechanical establishments, and of danger from explosion of steam-boilers in the vicinity. If the argument then used was a sound one, it is difficult to perceive how the annoyance and danger are lessened to those now remaining there, by the removal of one school. Aside from this, it would seem to be an unwise policy to occupy and heat so large and valuable a building to accommodate two primary schools. The Committee on Public Instruction of the last City Council reported that ample accommodations for these schools might be had in the unoccupied portion of the Green School-house on Merrimack Street. I think a due regard for the interests of the city and welfare of the scholars would dictate this course. If this is objected to, accommodations might be furnished by the erection of a smaller and less expensive house than the one now occupied.

The amount standing to the credit of this appropriation with the undrawn balance of 1870, was \$22,599.77; expenditure, \$21,117.92; balance undrawn, \$1,481.85.

STREETS AND BRIDGES.

This department of the public service is the most important of any which will require your attention; whether considered as to the amount to be expended, the importance of judicious expenditure, or the constant vigilance required to prevent accidents from obstructions or defects, and the payment of damages for real or fancied injuries sustained. If we would prevent cause for action, we should hold every officer whose duty it is in the premises, to a strict accountability. If a street is defective, it should be reported and

repaired forthwith. If negligently obstructed, let the ordinance be strictly and impartially enforced.

Our streets during the past year have, many of them, been in bad condition by reason of obstruction from laying water-pipes, as no repairs could be made during the progress of that work. Perhaps their bad condition was unavoidable. Three-fourths of all the pipe required has been laid. The streets in these localities should be put in complete repair as soon as practicable.

During the past year the following-named streets have been McAdamized in whole or in part: Western Avenue, Market Street from Dutton to Salem, River Street from Bridge to Coburn, and Beech Street from Third to Sixth, an aggregate of twelve thousand one hundred and thirty-one vards. Street gutters have been paved in the followingnamed streets: Mt. Vernon, Market, Varney, Third, Fourth, Fifth, River and High Streets, with an aggregate of three thousand five hundred and sixty square yards; Central Street from Church to Union Street has been repayed, and Market Street, from Central to the west end of the Armory Building, paved with granite blocks, an area of two thousand and ten square yards; twenty-nine street crossings of concrete have been laid, and seven thousand one hundred and eighty-four lineal feet of edge-stones set.

I believe a true system of economy would dictate that our main business streets, which are subjected to heavy travel, should be paved. Of these, I would name Market Street from the Armory Building to Dutton Street; Dutton Street from Mechanic Street to Fletcher, and Middlesex Street from Central Street west to the line now paved.

The bridges maintained by the city are reported to be in good condition, and will require little, if any, repairs during the year. The City Council of last year, in conjunction with the authorities of the town of Dracut, contracted for the erection of an iron bridge at Pawtucket Falls, to supersede the wooden structure, which having withstood the storms and freshets of nearly threefourths of a century, had become unsafe. The new bridge has been completed. It is a symmetrical and substantial structure, and reflects great credit on the committees in charge of the work, as also the contractors. The expense was thirty-six thousand dollars, borne equally by the city of Lowell and the town of Dracut. \$13,129.26 of our part has been paid; \$4,870.74 is yet due on the contract.

The amount standing to the credit of the appropriation for streets, with unexpended bal-

ance of 1870, was \$68,671,09; expenditures, \$49,932.94; balance undrawn, \$18,738.15.

The Commissioners for Middlesex County, under authority of the Legislature, have contracted for the erection of a bridge across Merrimack River in Tyngsborough, to be built the present year. They are authorized by the act to assess the expense upon such cities and towns as in their opinion receive particular and special benefit from the construction of the bridge. It is understood that it is contemplated to assess Lowell for a portion of the expense; to what amount has not been made known. Mayor Sherman and the City Solicitor appeared last year before the commissioners and protested in behalf of the city against such assessment. Why Lowell should be taxed for an object from which her citizens will receive no benefit or accommodation, it is difficult to determine, except that the power exists.

FIRE DEPARTMENT.

This department, on which we rely with confidence for protection against the element which has caused so much loss and distress in other localities the past year, is in a most effective condition. The amount of loss sustained the year just closed has been estimated at \$19,800, mostly covered by insurance.

The department has been called out forty-three times during the year. The force consists of three steamers, seven hose companies, one hook and ladder company, comprising in all one hundred and twenty-five men, including one Chief Engineer and four Assistant Engineers.

of alarm telegraph, which was put in operation the eighteenth of August, since which time there have been eighteen alarms, only four of which required the services of the department. I would suggest that persons wishing to give an alarm, make themselves tolerably certain that the services of the department are required before opening the box. A little care in this direction would save the force much unnecessary inconvenience. Time and experiment will doubtless remedy this defect in the system.

When our Water Works are completed, one or more steamers may be dispensed with; if so, we shall probably require one or more additional hose companies.

The amount to the credit of the department, with the undrawn balance of the previous year,

was \$35,064.77; expenditures, \$34,156.85; balance undrawn, \$907.92.

CITY LIBRARY.

This institution, founded and maintained for mental and moral improvement, is quietly performing its mission. I regret that the number availing themselves of its privileges has been less, the past year, than for several years previous; this probably was, in some degree, due to the epidemic which prevailed during the latter part of the year. The necessity of providing more suitable accommodations for the library has been urged by the directors for several past years. The City Council of last year opened negotiations with the Hon. Hocum Hosford, with a purpose to obtain a portion of his new building on Merrimack Street, known as "Masonic Temple." The result was the securing of a lease for ample accommodations for the library, in the second story, for the term of ten years, with the privilege of a renewal, at an annual rental of twelve hundred dollars. rooms are now being prepared, and when finished will be central in location, easy of access, and every way suitable for the convenience of the patrons of the library. When these arrangements

are completed, we may safely anticipate a renewed interest in the institution. The library now contains fifteen thousand two hundred and forty-five volumes, six hundred and seventeen of which have been added during the year. The number of new subscribers during the year was five hundred and seventy-one; whole number, one thousand one hundred and eighteen; number of volumes delivered during the year, forty-eight thousand one hundred and seventy-seven; average daily delivery, one hundred and ninety-four.

The amount standing to the credit of the library appropriation, with the undrawn balance of 1870, was \$5,157.13; expenditures, \$2,359.92; balance undrawn, \$2,797.21.

PAUPERS.

The care of the unfortunate poor is a duty devolving on us not solely by legal enactments, but by the Christian principle of relieving those in poverty or distress whenever in our power so to do. I am confident, from long observation, that this unfortunate class are as well provided and cared for by our city as their best friends, under the circumstances, could desire.

Our almshouse has, for many years, been under a kind and generous Superintendent, whose

aim has been to render the condition of the inmates comfortable and pleasant. The almshouse and farm remain under the superintendence of Mr. Lorenzo Phelps, whose long experience so well qualifies him for the position.

The whole number of inmates January 1, 1871, was sixty; admitted during the year, one hundred and thirty; number discharged, one hundred and ten; died, twenty-four; average number for the year, sixty-four; present number, fifty-six—sixteen of whom are insane. The amount paid for labor during the year, exclusive of Superintendent's salary, was \$1,016; amount of farm products sold, \$3,153.93. The amount of relief furnished to persons outside the almshouse, having settlement, was \$762.25; to those having no settlement, \$405.91.

The amount to the credit of this account was \$25,867.22; expenditures, \$18,026.74; balance undrawn, \$7,840.48.

REFORM SCHOOL.

This institution, connected with the almshouse and under the same general superintendence, is maintained for the correction and reform of juvenile offenders. Its management is still confided to Mr. William A. Lang, who officiates as teacher and chaplain, and whose valuable services have been long appreciated by our predecessors. I can not too strongly commend this institution to your fostering care. Other cities are availing themselves, by arrangements with the Overseers of the Poor, of the advantage of the school.

The whole number of inmates during the year was eighty; admitted, forty-two; discharged, thirty-two; average number for the year, forty-two; now in the school, forty-eight; of whom four are from Charlestown, three from Woburn, three from Chelsea, and two from Somerville.

POLICE.

The police force, as now constituted, consists of a Marshal, Deputy Marshal, six men for day duty, and twenty-six for night patrol, and one employed as Truant Commissioner,

The Marshal's report for the year just closed, gives the whole number of arrests as two thousand eight hundred and forty-six. Of this number seventy-one per cent. was for intoxication. The amount received into the treasury on account of police was \$3,072. During the past year a change has been made in employing men for duty on the Sabbath and special occasions.

Formerly the night police were detailed for this duty. A force of supernumerary police have been appointed, by whom this duty is now performed, as occasion requires, thus relieving the night force from the necessity of being employed twenty out of twenty-four hours, a labor wholly incompatible with health, or a faithful discharge of duty. I would advise that the system be continued. The amount of police duty the past year has been large, caused by the late fair, rebuilding Pawtucket Bridge, smallpox, and the Water Works. These causes have mainly ceased to exist. The expense of the department has been greater the past than in any preceding year. For several years the expense of the department has increased in a greater ratio than the property or population to be protected. It is for you to consider and determine whether any retrenchment can be safely and properly made.

The following is the amount of expenditure for police, for the past six years:

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Expenditure in 1866, $27,358 14
                       33,977 72, increase, $6,619 58
             " 1867,
             " 1868,
                       35,851 69,
                                            1,973 76
             " 1869,
                       36,725 42,
                                             873 73
             " 1870,
     44
                      38,125 15,
                                            1,399 73
     46
             " 1871,
                       41,642 23,
                                            3,517 08
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The amount to the credit of this appropriation was \$47,358.72; expenditures, \$41,642.23; balance undrawn, \$5,716.49.

SEWERS.

Our work on sewerage in past years has been performed with no particular reference to any general system. Successive City Councils have constructed sewers as necessity at the time demanded, for the purpose of draining a particular locality, without much reference to remote drainings, which should ultimately find outlet through these sewers. Hence, it is found that as the city expanded, some of the sewers constructed in former years are wholly inadequate to discharge all the water it is necessary for them to receive. The completion of the Water Works will necessitate a more extensive system of sewerage. I think the time has fully come when such system should be inaugurated. My predecessor, in his address to the Council last year, says: "We are to have the water; how shall we get rid of it?" In answer to this pertinent inquiry I would recommend that the Committee on Sewers and Drains, or a separate

commission, be empowered to cause surveys and drawings of a complete system of sewerage to be made for the entire city, having reference to, and connection with, those already constructed. When this is completed, we shall have a general system and plan, which can be carried forward from time to time as our necessities may require. I earnestly commend this subject to your candid and careful consideration. The past year a sewer has been laid in Church Street, from Concord River to George Street, with the design ultimately to continue it through George, Tyler, Central, Charles and Summer Streets, to the South Common. This sewer is of sufficient capacity for any prospective wants, and when completed, will furnish drainage for Chapel Hill and the vicinity of Appleton and Summer Streets. A smaller sewer has been built connecting at Suffolk Street, thence through Cross to Mt. Vernon Street, also a branch from Cross Street to the southerly line of Broadway. The sewer commenced on Church Street, I think, should be completed the present year. If you should so determine, I would advise that early action be taken, that the work may be fully completed the present year.

The amount to the credit of this department was \$20,261.72; expenditures, \$16,345.59; balance undrawn, \$3,916.13.

WATER WORKS.

This enterprise, which, it is believed, is to have an important and favorable influence on the growth and prosperity of our city, is well advanced toward completion. I am informed by the Commissioners in charge of the work, that the contracts will generally be completed within the time specified. If so, the entire work will be completed on or before the first of August next.

The amount appropriated for Water Works was \$717,358.20; expenditures, \$625,151.66; balance undrawn, \$92,206.54.

LIGHTING STREETS AND PUBLIC BUILDINGS.

This department is under the supervision of the Chief Engineer, Mr. Weare Clifford. There are now four hundred and ninety street lights; four hundred and thirty-nine gas and fifty-one fluid. There have been added during the year nineteen gas lights.

The amount appropriated was \$20,172.81; expenditures, \$15,650.04; balance undrawn, \$4,-522.77.

OTHER MATTERS.

There are several unadjusted claims and suits against the city, for the details of which I refer you to the report of the City Solicitor, which will shortly be furnished.

The Lowell and Framingham Railroad, which was constructed and opened the past year, has been run through the entire length of the City Farm, using about five acres, some of the land being of the most valuable. No settlement has been effected. Authority should be delegated, with power to settle the claim.

It was recommended by my predecessor that the land on Varney Street, purchased for school purposes, should be sold. In this opinion I fully concur. There is no prospect that it will be wanted for that purpose for several years, if ever. The value will not increase in the ratio of the interest we are now paying on its purchase.

SALE OF INTOXICATING LIQUORS.

Notwithstanding the stringent laws in force for the suppression of this crime, and the vigilance and energy displayed by the officers of the State Police, this evil still continues. Citizens claiming high social standing are, for base gain, engaged in this most pernicious traffic, while those claiming less respectability follow their example. The fact that the Commonwealth has her own special police for the execution of this, as well as other laws, relieves us of none of the responsibility resting upon us to see that the laws are properly enforced. Whatever measures you may devise auxiliary to the efforts of the State Police, for the suppression of this evil, will receive my most cordial co-operation.

PUBLIC HEALTH.

Early last year small-pox made its appearance in our city. As this disease had been, more or less prevalent in preceding years, neither our citizens nor the Board of Health gave the subject much practical attention. As the season advanced, however, it was found to be prevailing in almost every section of the city; and that the most stringent and energetic measures must be taken. A new Board of Health was elected, who, calling to their aid our most experienced physicians, soon had the

disease under control, and finally entirely eradicated. For the time, the effect was most disastrous to the business interests of our city, involving the loss of many valuable lives. Let the sad experience of this severe visitation admonish us as to our duties in the future in every matter pertaining to the general health and cleanliness of our city.

The amount appropriated was \$28,072.71; expenditures, \$26,730.42; balance undrawn, \$1,-342.29.

BALANCE STANDING TO THE CREDIT OF APPROPRIATIONS NOT OTHERWISE STATED.

,	APPROPRIATIONS.	EXPENDITURES.	BALANCES.	
Water Pipe	\$ 2,975 58	\$ 262 70	\$ 2,712 88	
Commons	4,924 23	3,661 33	1,262 90	
Printing and Advertising	3,369 13	3,103 06	266 07	
Repairs of Public Buildings	8,186 78	2,746 01	5,440 77	
Salaries	16,646 81	16,003 75	643 06	
Setting Trees			81 87	
City Debt	38,045 89	10,500 00	27,545 89	
Interest on City Debt	34,307 34	31,102 46	3,204 88	
Corporation Tax			13,083 10	
Reserved Fund	15,022 59	12,462 54	2,560 05	

FINANCE.

Our public debt, caused by the introduction of water, must be large for many years. However remote the time of payment, it will surely come. I would suggest that it is none too early to commence preparations for payment, by creating a Sinking Fund for that object. The amount received annually from the Commonwealth for Corporation Tax might be reserved for that purpose, to which additions by taxation, or other sources, might be made from time to time. I commend the subject to your consideration.

The whole amount received into the treasury, includ-	-	
ing the balance on hand January 1, 1872, was	\$1,575,747	86
Amount paid out during the same time, was	1,248,230	34
Cash balance on hand	. \$327,517	52
Due from the Commonwealth for rent of armories	. 1,200	00
Due from the Commonwealth an account of State aid.	. 20,304	60
Due for taxes for 1869, 1870 and 1871	. 17,126	74
Amount due, including cash on hand	\$366,148	86
Due from the city on permanent loan	. \$1,322,624	63
Bills on draft unpaid	. 42,740	60
	\$1,365,365	23
Deduct cash on hand and amounts due the city	366,148	86
Total indebtedness	\$999,216	37

Fifty thousand dollars of the permanent loan falls due in August of the present year. Provision must be made for the payment.

The amount of permanent loan, contracted on Water Works account, is \$800,000. There are due on contracts, on account of Water Works, balances which are not computed in the foregoing statements.

CONCLUSION.

Gentlemen,—I have thus given you a synopsis of the several subjects which will claim your attention for the year. Relying on the Ruler of the Universe for aid and direction in the discharge of every duty, let us be true to our own consciences, and faithful to the interests of those who have honored us with their confidence.

The interests of our city are in your keeping. Be assured of my earnest co-operation in all measures having for their object the general good.



MUNICIPAL REGISTER:

CONTAINING

RULES AND ORDERS

OF THE

CITY COUNCIL,

AND A

LIST OF THE GOVERNMENT AND OFFICERS

OF THE CITY OF LOWELL, FOR

1872.



LOWELL, MASS:
STONE & HUSE, BOOK AND JOB PRINTERS, 21 CENTRAL STREET.
1872.



JOINT RULES AND ORDERS OF THE CITY COUNCIL.

1. At the first or second meeting of the City Council, the following Joint Standing Committees shall be appointed, viz:

A COMMITTEE ON ACCOUNTS,

A COMMITTEE ON CLAIMS,

A COMMITTEE ON COMMONS,

A COMMITTEE ON FINANCE,

A COMMITTEE ON FIRE DEPARTMENT,

A COMMITTEE ON LANDS AND BUILDINGS,

A COMMITTEE ON MILITARY AFFAIRS,

A COMMITTEE ON PRINTING,

A COMMITTEE ON PUBLIC INSTRUCTION,

A COMMITTEE ON SEWERS AND DRAINS,

A COMMITTEE ON STREETS,

A COMMITTEE ON WATER WORKS.

And the members of the Board of Aldermen, and of the Common Council, who shall constitute the Joint Standing Committees, shall be chosen or appointed by their respective Boards. Each of said Committees shall consist of two Aldermen and three members of the Common Council, except the Committee on Military Affairs, which shall be composed of the Mayor, two Aldermen and six members of the Common Council—one from each ward, the Committee on Streets, which shall be composed of the Mayor and two Aldermen and five members of the Common Council, and the Committee on Water Works, which shall consist of the Mayor, one Alderman, the President and two other members of the Common Council.

2. All by-laws passed by the City Council shall be termed Ordinances; and the enacting style, which shall be but once recited in each Ordinance, shall be, "Be it ordained by the City Council of the City of Lowell, as follows."

- 3. In all votes in which either or both branches of the City Council express anything by way of command, the form of expression shall be "Ordered" (except only in the case of Ordinances); and whenever either branch or both branches express opinions, principles, facts or purposes, the form of expression shall be "Resolved." Provided, however, that the appropriation of money to any amount exceeding fifty dollars shall be by Resolution.
- 4. Each Board shall transmit to the other all papers on which any Ordinance, Joint Resolution or Order shall be founded; and all papers on their passage between the two Boards shall be under the signature of their respective Clerks, except Ordinances and Joint Resolutions in their last stage, which shall be signed by the presiding officers.
- 5. The titles to all Ordinances and Joint Resolutions shall be prefixed upon their introduction.
- 6. Every Ordinance shall have as many readings in each Board as the rules of such Board require, after which the question shall be on passing the same to be enrolled; and when the same shall have passed to be enrolled, it shall be sent to the other Board for concurrence; and when such ordinance shall have so passed to be enrolled by each Board, the same shall be enrolled by the Clerk of the Common Council, and examined by a Committee of that Board; and, on being found by said Committee to be correctly enrolled, the same shall be reported to the Common Council, when the question shall be on passing the same to be ordained; and when said Ordinance shall have so passed to be ordained, it shall be signed by the President of the Common Council, and sent to the other Board, when a like examination shall be made by a Committee of that Board, and if found correctly enrolled, the same shall be reported to the Board, and the question shall be on passing the same to be ordained; and when the same shall have passed to be ordained, it shall be signed by the Mayor.
- 7. Every Joint Resolution shall have as many readings in each Board as the rules of such Board require; after which the question shall be on passing the same; and when the same shall have passed, it shall be sent to the other Board for concurrence; and when such Resolution shall have so passed in each Board, the same shall be enrolled by the Clerk of the Common Council, and examined by a Committee of that Board; and on being found by said Committee to be correctly enrolled, without further reading or question, shall be

signed by the President of the Common Council, and sent to the other Board, when a like examination shall be made by a Committee, and if found to be correctly enrolled, shall be signed by the Mayor.

- 8. All enrolled Ordinances shall be written in a fair and compact hand, without interlineations; and no enrolled Ordinance or Resolution shall be amended.
- 9. When either Board shall not concur with the other in any Ordinance or Resolution sent from such other, notice of such non-concurrence shall be given by written message.
- 10. In every case of disagreement in any matter requiring the joint action of the two Boards, if either Board shall request a conference, and appoint a Committee of Conference, and the other Board shall also appoint a Committee to confer, such Committee shall meet at a time agreed upon by the Chairman, and state to each other, either verbally or in writing, as either shall choose, the reasons of the respective Boards for or against the proposed action, confer freely thereon and report to their respective branches.
- 11. All messages between the two Boards shall be reduced to writing by the respective Clerks, and may be transmitted by the Messenger.
- 12. It shall be the duty of every Joint Committee (the Committee on Streets excepted) to whom any subject may be specially referred, to report thereon within five weeks, or ask for further time.
- 13. The Mayor shall be, ex-officio, Chairman of any Joint Special Committee of which he is a member.
- 14. In all Joint Standing Committees, except that on Finance, the member first named in the Board of Aldermen shall be Chairman; of the Committee on Finance, the member first named in the Common Council shall be Chairman; and in all Joint Special Committees of which the Mayor is not a member, the member first named in the Board where the business originates, shall be Chairman, and shall call the Committee together.
- 15. The reports of all Committees signed by a majority of the members, shall be made to the Board in which the business referred originated.
- 16. No Committee shall act by separate consultation, and no report shall be received unless agreed to in Committee actually assembled.

- 17. No Committee shall enter into any contract with, or purchase, or authorize the purchase of, any article, of any of its members.
- 18. No Chairman of any Committee shall audit or approve any bill or account against the City, for any supplies or services which shall not have been ordered or authorized by the Committee.
- 19. All reports and other papers submitted to the City Council shall be written in a fair hand, without endorsement, except in case of the introduction of an order. In such case the member introducing an order shall subscribe his name at the bottom of the back of the order. All other endorsements upon the back of papers shall be made by the Clerks, and the Clerks of the Boards respectively shall, on seasonable notice, make copies of any papers to be reported by Committees, at the request of the respective Chairmen thereof.
- 20. No business shall be transacted by the City Council in Convention, except such as shall have been previously agreed on, unless by unanimous consent.
- 21. After the annual appropriations shall have been passed, no subsequent expenditure shall be authorized for any object, unless provision for the same shall be made by a specific transfer from some of the appropriations contained in the annual resolution, or by expressly creating therefor a City debt; but no such debt shall be created unless the resolution authorizing the same pass by the affirmative votes of two-thirds of the whole number of each branch of the City Council voting by yea and nay.
- 22. In balloting for officers of the City, in Convention of the two Boards, blanks shall not be counted.
- 23. Either Board may propose to the other for its concurrence a time to which both Boards will adjourn; and neither shall adjourn without giving notice to the other Board through the Messenger or otherwise.

RULES AND ORDERS OF THE BOARD OF ALDERMEN.

First—The order of business shall be as follows:

- 1. The journal of the previous meeting shall be read.
- 2. Petitions shall next be called for, and be disposed of by reference or otherwise.
- 3. Such nominations, appointments and elections, as may be in order, shall be considered and disposed of.
- 4. The orders of the day shall be taken up; meaning by the orders of the day, the business remaining unfinished at the previous meeting, and such communications as may have been subsequently sent up from the Common Council.
 - 5. New business may be introduced by any member of the Board.

Second—Every Bill or Ordinance shall pass through the following stages before it shall be considered as having received the final action of this Board, viz:—first reading, second reading, passage to be enrolled, passage to be ordained; and every Joint Resolution shall have two several readings before the question shall be taken on its final passage.

Third—A Bill or Ordinance may be rejected at either stage in its progress, but may not pass through all its stages in one day.

Fourth—Standing Committees shall be appointed as follows:

- A COMMITTEE ON BILLS IN SECOND READING,
- A COMMITTEE ON ENROLLMENT,
- A COMMITTEE ON LICENSES,
- A COMMITTEE ON LIGHTING STREETS,
- A COMMITTEE ON POLICE AND POLICE STATIONS,
- A COMMITTEE ON REPAIRS OF STREETS,
- A COMMITTEE ON SETTING TREES,
- A COMMITTEE ON WEIGHTS AND MEASURES.

Fifth—No member shall be interrupted while speaking, but by a call to order, or for the correction of a mistake; nor shall there be any conversation among the members while a paper is being read, or a question stated from the chair.

Sixth—A motion for the re-consideration of a vote shall be open to debate, but such motion shall not be considered unless made by a member voting with the majority, or unless notice thereof be given at a meeting at which the vote passed, in which case the motion shall be made at the next meeting after; and only one motion for the re-consideration of any vote shall be permitted.

Seventh—When any member is about to speak in debate he shall rise in his place and respectfully address the presiding officer; shall confine himself to the question under debate and avoid personality.

Eighth—The above rules and order of business shall be observed in all cases, unless suspended by a vote of two-thirds of the members present, for a specific purpose.

RULES-AND ORDERS OF THE COMMON COUNCIL.

- .1. The President shall take the chair precisely at the hour appointed for the meeting; call the members to order, and within ten minutes (or sooner if a quorum be present) he shall cause the roll to be called and the names of the absentees recorded. Before proceeding to business, he shall cause the minutes of the preceding meeting to be read. In the absence of the President, the oldest member present shall call the Council to order, and preside until a President pro tempore be chosen.
- 2. He shall preserve order and decorum; may speak to points of order in preference to other members, rising from his seat for that purpose, and shall decide questions of order, subject to an appeal to the Council by any member.
- 3. He shall rise to address the Council, to state facts, or to put a question, but may read sitting.
- 4. He shall declare all votes; but if a vote be doubted, the President shall, without further debate, require the members voting in the affirmative and negative to rise and stand until they are counted, and he shall declare the result.
 - 5. He may call any member to the chair, but such substitution shall not extend beyond an adjournment; and when out of the chair, the President may express his opinion on any subject under debate, and he shall not resume the chair while the same question is pending.
 - 6. All questions shall be propounded in the order in which they are moved, unless the subsequent motion be previous in its nature; except that in naming sums and fixing times, the largest sum and the longest time shall be first put.
 - 7. After a motion is stated by the President, it shall be disposed of by a vote of the Council, unless the mover withdraw it before a decision or amendment.
 - 8. A motion to adjourn shall always be in order; that and the motion to lay on the table, shall be decided without debate.

- 9. The previous question shall be in this form: "Shall the main question be now put?" It shall only be admitted when demanded by a majority of the members present; and, until it is decided, shall preclude all amendment and further debate of the main question.
- 10. The yeas and nays shall be taken on any question upon the request of one-third of the members present.
- 11. When two or more members happen to rise at the same time, the President shall name the member who is to speak first.
- 12. When any member is about to speak in debate, or deliver any matter to the Council, he shall rise in his place and respectfully address the presiding officer, confining himself to the question under debate, and avoiding personality.
- 13. No member shall be mentioned in debate by his name, but may be described by the place he sits in, or such other designation as may be intelligible and respectful.
- 14. No member speaking shall be interrupted by another, but by a call to order or to correct a mistake. If any member in speaking or otherwise, transgress the rules of the Council, the President shall, or any member may call him to order; in which case the member so called to order shall immediately sit down, until the question of order is decided. If the decision be in favor of the member called to order, he shall be at liberty to proceed; if otherwise, he shall not proceed without leave of the Council.
- 15. No member shall speak more than twice to the same question, without obtaining leave of the Council.
- 16. Whilst the President or any other member is speaking, none shall stand up or pass unnecessarily before the person speaking.
- 17. Every motion shall be reduced to writing, if the President or any member require it.
- 18. When a question is under debate, no motion shall be received but to adjourn, to lay on the table, for the previous question, to postpone to a certain day, to commit, to amend, or to postpone indefinitely; which several motions shall have precedence in the order in which they are arranged; and no motion to postpone or commit shall be allowed twice in the same day in the same stage of the ordinance or proposition.
- 19. A motion for the reconsideration of a vote shall be open to debate, but such motion shall not be considered unless made by a member voting with the majority, or unless notice thereof be given at the meeting at which the vote passed, in which case the motion shall

be made at the next meeting after; and only one motion for the reconsideration of any vote shall be permitted.

- 20. Every member who shall be in the Council when a question is put shall give his vote unless the Council, for special reasons, excuse him.
- 21. No motion or proposition on a subject different from that under consideration shall be admitted under color of an amendment.
- 22. All motions and reports may be committed or re-committed at the pleasure of the Council.
- 23. The division of a question may be called for when the sense will admit of it.
- 24. When the reading of a paper is called for and objected to, it shall be determined by a vote of the Council.
- 25. No standing order of the Council shall be suspended, unless three-fourths of the members present consent thereto; nor shall any rule or order be repealed or amended, without one day's notice being given of the motion therefor, nor unless a majority of the whole Council concur therein.
- 26. All Committees, except such as the Council determine to select by ballot, shall be nominated by the President.
- 27. No member shall be obliged to serve on more than two Committees at the same time, or be Chairman of more than one.
- 28. All memorials and other papers addressed to the Council, shall be presented to the President, or by a member in his place, who shall explain the subject thereof, and they shall be taken up in the order in which they were presented, unless the Council shall otherwise direct.
- 29. Standing Committees shall be appointed on the following subjects:

On Bills in Second Reading,

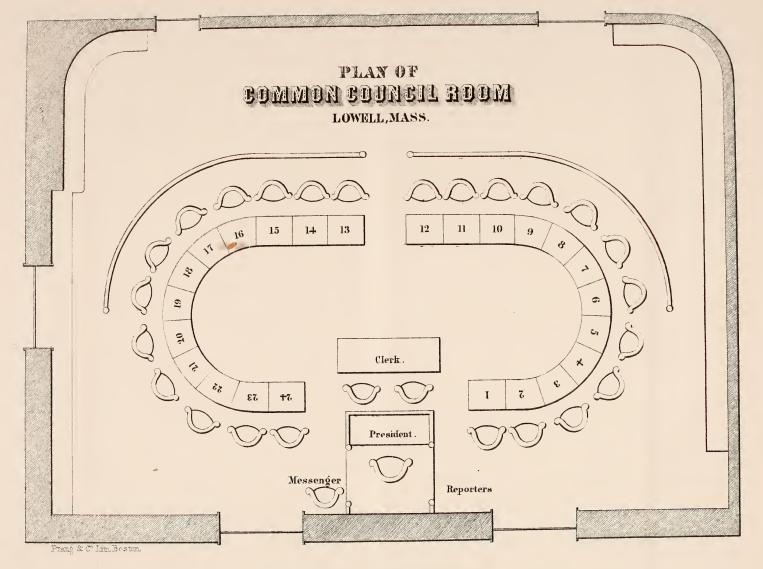
ON ENROLLMENT,

ON ELECTIONS AND RETURNS.

- 30. No Committee shall sit during the sitting of the Council without special leave, except the Committee on the Second Reading of Bills and Ordinances, and the Committee on Eurollment.
- 31. The Rules of proceeding in the Council shall be observed in the Committee of the Whole, so far as they are applicable, except the Rule limiting the time of speaking.

- 32. When a Committee is nominated by the Chair, the person first named shall be Chairman. In election of Committees by ballot when a Chairman is not specially chosen, the person having the highest number of votes shall act as Chairman, and, in case of an equality in votes between two or more members of a Committee, the members thereof shall choose a Chairman.
- 33. All Ordinances and Resolutions shall have two several readings before they shall be finally passed by this Council.
- 34. All Ordinances before being read a second time, shall be referred to the Committee on the Second Reading of Bills and Ordinances, and after being reported upon by said Committee, shall be again read, after which second reading, the question shall be on passing the same to be enrolled.
- 35. No Ordinance or Resolution imposing penalties or authorizing the expenditure of money, shall have more than one reading the same day.
- 36. The seats of the Common Council shall be numbered and determined by lot, and no member shall change his seat but by permission of the President.
- 37. All Committees of the Council shall consist of three members, unless a different number be specially ordered. And no report shall be received from any Committee, unless agreed to in Committee actually assembled; and all reports shall be in writing.
- 38. It shall be the duty of every Committee of the Council, to whom any subject may be specially referred, to report thereon within five weeks, or ask for further time.
- 39. The Clerk shall keep brief minutes of the votes and proceedings of the Council, entering thereon all accepted Resolutions; shall notice reports and memorials, and other papers submitted to the Board, only by their titles, or a brief description of their purport.
- 40. All salary officers shall be chosen by written ballots, and blanks shall not be counted.
- 41. Members of the Council may attend meetings of any of its Committees, but shall not vote thereat.
- 42. The Clerk of the Common Council shall keep the record of Committees who may require that service; and on the appointment of every Standing Committee a book for records shall be provided by its Chairman, or by said Clerk. The Clerk shall have the custody of all minutes by him kept; and the records of the several Committees shall be open to the inspection of the members of the City Council.





HENRY P. PERKINS,

President.

1—LEONARD BROWN, 2—Samuel M. Chase, 3-WILLIAM SHEPARD, 4—ALONZO F. CASWELL, 5-6-CHARLES F. BELDEN,

7—CHARLES F. TILTON, 8-Alonzo L. Russell,

10-Julian Talbot,

11—HORACE ELA,

13—ABEL T. ATHERTON,

14—John E. Webb, 9-Nathaniel P. Favor, 15-Joseph S. Brown,

16-EARL A. THISSELL,

17—CRAWFORD BURNHAM, 12—Nathaniel C. Sanborn, 18—Luther J. Eames,

22—HENRY A. LORD, 23-TRUE P. JORDAN,

24—Amos A. Blanchard.

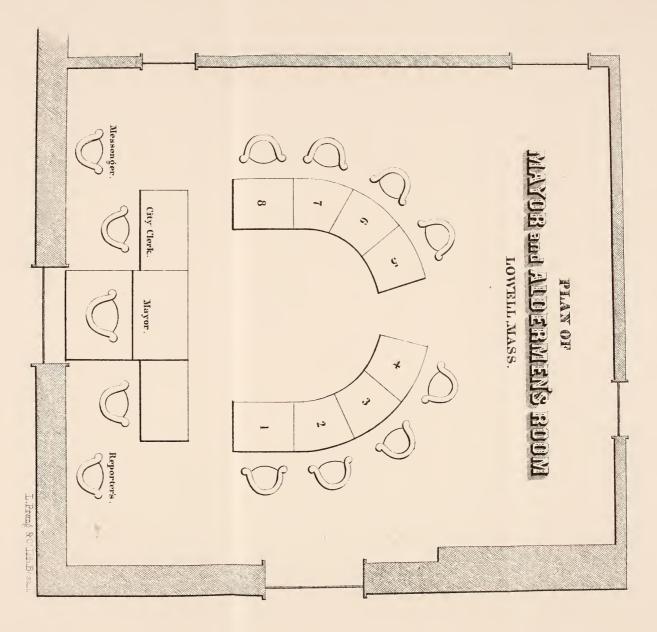
20—Julius C. Jockow,

21-NATHAN W. FRYE,

19—Southwell Farrington,

GEORGE GARDNER, Clerk.

JOHN H. NICHOLS, Messenger.



JOSIAH G. PEABODY,

Mayor.

1—Henry C. Howe,

2—Benj. Walker,

8—Benjamin Patch,

4—Alpha B. Farr,

j

5—Gustavus A. Gerry,

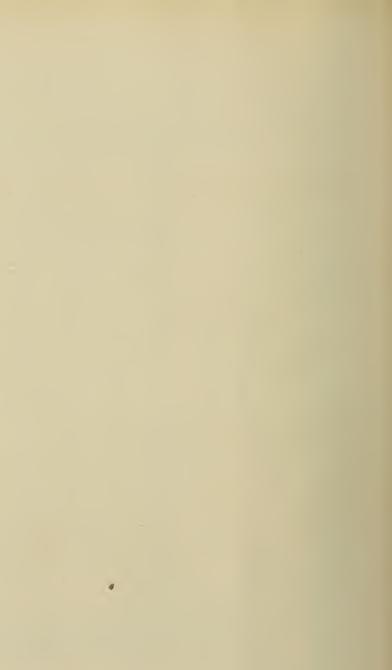
6—Frederick T. North,

7-WILLIAM KELLEY,

8—Alexander G. Cumnock.

Samuel A. McPhetres, City Clerk.

John H. Nichols, Messenger.



GOVERNMENT OF THE CITY OF LOWELL, 1872.

MAYOR:

JOSIAH G. PEABODY,

Corner Broadway and Wilder Street.

ALDERMEN:

HENRY C. HOWE
ALEXANDER G. CUMNOCK1 Kirk Street.
BENJAMIN PATCH68 Worthen Street:
GUSTAVUS A. GERRY39 Third Street.
FREDERICK T. NORTH 31 Elm Street.
BENJ. WALKER20 Appleton Street.
WILLIAM KELLEY
ALPHA B. FARR24 Stackpole Street.

COMMON COUNCIL:

HENRY P. PERKINS, PRESIDENT.

Ward One.

John E. Webb
Alonzo F. Caswell
Southwell Farrington
True P. Jordan

Ward Two.

LEONARD BROWN	, Durant Street.
Amos A. Blanchard	134 Market Street.
Joseph S. Brown	Myrtle Street.
EARL A. THISSELL	51 Bridge Street.

Ward Three.

Henry P. Perkins
Horace Ela 58 Chapel Street.
Julius C. JockowAgawam Street.
CHARLES F. TILTON

Ward Four.

NATHANIEL P. FAVOR	81 Summer Street.
NATHAN W. FRYE	Corner Tanner and Howard Sts.
HENRY A. LORD	., Middlesex St., near City Line.
Alonzo L. Russell	Dover Street.

Ward Five.

Crawford Burnham
CHARLES F. BELDEN 6 Cabot Block, Cabot Street
Luther J. Eames
WILLIAM SHEPARD 77 Cross Street

Ward Six.

ABEL T. ATHERTON
NATHANIEL C. SANBORN
Samuel M. Chase
JULIAN TALBOT Chestnut Street.

CITY CLERK.

Samuel A. McPhetres.....School, corner Bowers Street.

[Chosen in Convention of the City Council, on the first Monday of January. City Charter, § 4.]

CLERK OF COMMON COUNCIL.

[Chosen on the first Monday in January. City Charter, § 5.]

MESSENGER TO THE CITY COUNCIL.

[Chosen by concurrent vote in January. See Ordinance in this Register.]

MEETINGS OF THE CITY COUNCIL.

The Regular Meetings of the City Council are held at the City Government Rooms, on the Second and Fourth Tuesdays of each month, at $7\frac{1}{2}$ o'clock in the evening.

COMMITTEES OF THE CITY COUNCIL.

JOINT COMMITTEES.

On Accounts. Aldermen Patch and Kelley; Messrs. Ela, Talbot, and Caswell.

ON BOARD OF HEALTH. The Mayor, Alderman Howe; Messrs. Atherton, Frye, and Favor.

On Claims. Aldermen Walker and Cumnock; Messrs. Sanborn, Talbot, and Joseph S. Brown.

On Commons. Aldermen Gerry and North; Messrs. Eames, Jordan, and Belden.

On Finance. The Mayor; Messrs. Perkins, Shepard, and Talbot.

ON FIRE DEPARTMENT. Aldermen Farr and Kelley; Messrs. Leonard Brown, Blanchard, and Webb.

On Lands and Buildings. Aldermen Howe and Gerry; Messrs. Jockow, Frye, and Lord.

ON MILITARY AFFAIRS. The Mayor, Aldermen Farr and North; Messrs. Farrington, Leonard Brown, Tilton, Russell, Shepard, and Chase.

On Printing. Aldermen Walker and Patch; Messrs. Blanchard, Ela, and Caswell.

ON Public Instruction. Aldermen Cumnock and North; Messrs. Chase, Farrington, and Thissell.

ON SEWERS AND DRAINS. Aldermen Kelley and Howe; Messrs. Leonard Brown, Shepard, and Frye.

On Streets. The Mayor, Aldermen Farr and Cumnock; Messrs. Burnham, Atherton, Webb, Jockow, and Favor.

ON WATER WORKS. The Mayor, Alderman Cumnock; the President, and Messrs. Sanborn, and Burnham.

STANDING COMMITTEES.

OF THE BOARD OF ALDERMEN.

On Bills in Second Reading. Aldermen Patch and Howe.

ON ENROLLMENT. Aldermen North and Walker.

On Licenses. The Mayor; Aldermen Cumnock and Howe.

ON LIGHTING STREETS. The Mayor; Aldermen Farr and Gerry.

On Police and Police Stations. The Mayor; Aldermen Gerry and Kelley.

ON REPAIRS OF STREETS. The Mayor; Aldermen Cumnock and Farr.

On Setting Trees. Aldermen North and Gerry.

ON WEIGHTS AND MEASURES. The Mayor; Aldermen Walker and Patch.

OF THE COMMON COUNCIL.

ON BILLS IN SECOND READING. Messrs. Joseph S. Brown, Jordan, and Russell.

On Enrollment. Messrs. Tilton, Lord, and Favor.

ON ELECTIONS AND RETURNS. Messrs. Thissell, Belden, and Eames.

RICHARD W. BAKER, Clerk to Committee on Streets, Sewers and Drains.

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CITY OFFICERS, 1872.

CITY TREASURER AND COLLECTOR OF TAXES.

John H. McAlvin......Office, City Hall.

[Chosen by the City Council in Convention in January. Ord.

pp. 42, 167.]

Deputy Collectors are selected and appointed by the Treasurer.

AUDITOR OF ACCOUNTS.

SUPERINTENDENT OF STREETS.

LUTHER RICHARDS..... Office, at Civil Engineer's Room, City Hall. [Chosen by concurrent vote in January or February. Ord. p. 167.]

SURVEYORS OF HIGHWAYS.

Josiah G. Peabody, Mayor; Alderman Alexander G. Cumnock, Councilman Crawford Burnham.

[Chosen by concurrent vote in January or February. Ord. p. 167.]

CIVIL ENGINEER FOR THE CITY.

RICHARD W. BAKER......Office, City Hall.

[Chosen by concurrent vote in January or February. Ord. p. 167.]

CITY SOLICITOR.

JOSHUA N. MARSHALL.... Office, 3 Barristers' Hall, Central Street. [Chosen by concurrent vote in January or February. Ord. p. 167.]

LIBRARIAN OF THE CITY LIBRARY.

MARSHALL H. CLOUGH......Office at the Library, Masonic Temple. [Chosen by concurrent vote in January or February. Ord.p. 167.]

DIRECTORS OF THE CITY LIBRARY.

Ward 1—William Hardman, Ward 2—Erastus Boyden, Ward 3—Albert A. Haggett, Ward 6—Tobias L. P. Lamson.

[The last six are chosen by concurrent vote in January or February. Ord. p. 133.]

SUPERINTENDENT OF PUBLIC BUILDINGS.

CITY PHYSICIAN.

Walter H. Leighton.....Office, Central, corner Middlesex Street.

[Chosen by concurrent vote in January or February. Ord.p.167.]

SUPERINTENDENT OF BURIALS.

Walter H. Leighton.....Office, Central, corner Middlesex Street. [Chosen by concurrent vote in January or February. Ord.p. 167.]

ASSESSORS OF TAXES.

CALEB M. MARVEL, FRANCIS GOWARD, James Marren, Isaac A. Fletcher,

CYRUS W. DURGIN.

CALEB M. MARVEL, Chairman. | FRANCIS GOWARD, Secretary.

ASSIGNMENT OF WARDS.

Ward 1—James Marren,

Ward 4—Francis Goward,

Ward 2—Cyrus W. Durgin, Ward 3—Isaac A. Fletcher,

Ward 5—CALEB M. MARVEL, Ward 6—JAMES MARREN.

[Chosen by concurrent vote in January or February. Ord. p. 167.]

OVERSEERS OF THE POOR.

Josiah G. Peabody, Mayor, ex-officio.

ALDERMEN:

GUSTAVUS A. GERRY,

ALPHA B. FARR.

COMMON COUNCILMEN:

Ward 1—South'L Farrington, Ward 2—Amos A. Blanchard, Ward 3—Horace Ela, Ward 4—ALONZO L. RUSSELL, Ward 5—CRAWFORD BURNHAM, Ward 6—NATH'L C. SANBORN.

SUB-COMMITTEES.

On Fuel and Out-door Relief.—The Mayor, Aldermen Gerry and Farr.

On Agriculture, Neat Cattle and Swine.—Alderman Farr, Councilmen Russell and Ela.

On Repairs of Buildings.—Alderman Farr, Councilmen Russell and Farrington.

On Clothing, Bedding and Furniture.—Alderman Gerry, Councilmen Ela and Blanchard.

On Provisions and Supplies.—The Mayor, Councilmen Burnham and Sanborn.

On Reform School.—The Mayor, Alderman Gerry, Councilmen Farrington, Blanchard, and Sanborn.

Josiah G. Peabody, Chairman.

HORACE ELA, Secretary.

The regular meetings of the Board of Overseers are held at the Almshouse on the last day of each month.

ALMSHOUSE.

The Workhouse formerly connected with the Almshouse and used for the imprisonment of certain convicts, was abolished by the City Council in 1859. There is now connected with the Almshouse, "The House for the Employment and Reformation of Juvenile Offenders in the City of Lowell." The Poor Farm embraces about one hundred and twenty-five acres, seventy-five of which are in a high state of cultivation.

LORENZO PHELPS, Superintendent. WILLIAM A. LANG, Chaplain.

There is also one Male Assistant, with a salary of \$600 per year; one Female Assistant, with a salary of \$4.00 per week. The Superintendent is appointed by the Overseers of the Poor, annually, at the last meeting in December.

THE LOWELL WATER COMMISSIONERS.

LEVI SPRAGUE, Chairman.

WILLIAM E. LIVINGSTON, SAMUEL K. HUTCHINSON.

JOSEPH S. HOLT, Clerk.

Joseph P. Davis, Engineer.

The Water Commissioners were elected on the following dates: Mr. Livingston, December 14, 1869; Mr. Sprague, January 25, 1870; Mr. Hutchinson, October 10, 1871, under the provision of an Ordinance passed November 23, 1869, for three years from and after the time of their election, unless the Water Works shall be sooner completed; and in that case until the completion of said Works.

POLICE DEPARTMENT.

(Ord. p. 170. Act of 1867, Chap. 279.)

The members of this Department are appointed as Police Officers and Watchmen with all the powers of Constables, except the power of serving and executing civil process, by the Mayor, subject to the confirmation or rejection by the Aldermen, and hold their offices during the pleasure of the Mayor and Aldermen. Under the present organization the Police are divided into Day and Night Police. The Day Police are stationed at the Police Office, under the direction and command of the City Marshal; and in addition to their other duties,

are required to serve criminal precepts, and authorized and required to make complaint in every case of the violation of the ordinances concerning truant children and absentees from school, before the Police Court of Lowell.

CITY MARSHAL.

Charles P. Bowles. Office, West end of Market House Building. [Chosen by concurrent vote in January or February. Ord. p. 167.]

DEPUTY MARSHAL.

BICKFORD LANG......Office, West end of Market House Building.

[Appointed by City Marshal, and approved by Mayor and Aldermen. Ord. p. 171.]

DAY POLICE AND TRUANT OFFICERS.

ALFRED DAY,
WILMAM P. FARRINGTON,
JACOB G. FAVOR,
HARRISON H. FULLER,

BICKFORD LANG,
BENJAMIN G. MOONEY,
JESSE HUSE,
THOMAS J. SANBORN,

POLICE OFFICERS AND WATCHMEN.

LEVI BROWN, Captain of the Night Police.

Theophilus C. Blaisdell,
Andrew Blood,
Allen P. Bickford,
Squire L. Bailey,
James W. Buchanan,
Otis Bullard,
John Callahan,
William L. Clark,
Peter Creighton,
John Dougherty,
Asa F. Esty,
Augustus B. Foss,
David H. Goodhue,
Thomas Ingalls,

WILLIAM M. LEE,
ALBERT E. LIBBY,
ISAAC L. LIBBY,
FRANK N. MILES,
ALONZO PAGE,
MASON W. PRESBY,
GEORGE W. SANBORN,
JAMES W. SHEFFIELD,
DANIEL H. SINCLAIR,
FRANK T. THISSELL,
HENRY M. THOMPSON,
JAMES E. WEBSTER,
STEPHEN L. YOUNG.

[Appointed by the Mayor and Aldermen, from time to time. Ord. Sept. 24, 1867.]

SUPERNUMERARY POLICE OFFICERS AND WATCHMEN.

WILLIAM H. ADAMS,
STEPHEN BARTLETT,
JOHN BUCHANAN,
THOMAS H. CLOUGH,
THEOPHILE E. DEROCHES,
HENRY FARRINGTON,
FRANK GOODWIN,
CHARLES HOWARD,
HENRY H. JOHNSON,

Patrick Kelley,
Henry Marshall,
John A. Meloy,
Albert D. Porter,
Byron C. Sanborn,
Jacob R. Smith,
John W. Tilton,
Gilbert Trueworthy,
Thomas Walsh.

William Batchelder For Boston & Lowell Bailroad Co.

William Datemender	. L OI	Dogroi	I CO I	20 W 611	1 Leant Oa	a Co.
Eleazer Burnham	. "	"	"	"	66	66
Cyrus B. Emerson	. "	46	44	44	"	"
Andrew F. Gould		66	"	"	"	"
Moses S. Leach		"	46	"	"	"
Eben Meserve	. "	"	66	44	"	"
Jerry Coughlin	. "	44	66	44	46	"
Orsemus B. Goldsmith		rimack	Con	ipany.	•	
David J. Cheney		46		"		
Aaron Brown		sachus	etts (Jompa	ny.	
Aaron Garmon		"		"	·	
Elisha A. Thomas		nilton a	$\operatorname{und} A$	pplet	on Com	panies.
Charles F. Capen						•
William Lamson						
Warren Fletcher					son Hal	ls.
Edmund Thomas						
Lorenzo Phelps	.Alm	shouse	э.			
George E. Lovejoy						
Horace J. Conant		"	44			
Joseph Field		ge Stree	et Fr	eewill	Baptist	Church.
Abel A. Laughton		"		44	"	"
Frederick Munn		"		44	"	"
Levi H. Witham		Paul's	Chur	ch.		
James H. McCoy		44	"			
Joel M. Thurston		inity of	f Oti	s Alle	n's Mills	s.
James Hurd						
Thomas E. Saunders					-	

Edward B. Crane	
Luther Richards,	. For the City.
Francis Brown	. Appleton Street Church.
Thomas J. Burns	. Appleton Block and vicinity.
Otis J. Brown	. Suffolk & Tremont Company.
William H. Allen	
Alonzo Ordway	.Suffolk Corporation
Cleveland J. Cheney	. Locks and Canals Company.
Samuel M. Patterson	. First Congregational Church.
Sydney Davis	
	, Central Methodist Episcopal Church.
Patrick Cummiskey	.St. Patrick's Church.
William W. Bates	. Vicinity of Gas Works.
Henry S. Foster	. Music Hall.
Darius Quimby	.Wamesit Steam Mills.
James Stackpole,	
Major A. Shaw	
Lorenzo Woodward	
Levi M. Aldrich	
Charles Temple	•
Mark C. Whitney	
George Hobson,	
Aaron B. Young	
Allen Files,	
Cyrus F. Hill	
Thomas A. Fletcher	
George S. Adams	
Charles H. Warren	
Eben Walch	
	United States Bunting Company.
	. Woods, Sherwood & Co.'s Factory.
Thomas Hogan	
Edward L. Ramsdell	" " " "
Joseph D, Pinder	
	.J. C. Ayer & Co's laboratory & vicinity.
Joseph B. York	Cohom Chuttle Commons
Henry M. Abbott	Waynesia Barray Carray
William W. Rock	
	. Worthen Street Methodist Church.
Albort Hotels	.St. Joseph's Church, Lee Street.
Albert Hatch	Moody Street.

Joseph B. Johnson.,,	Worthen Street Baptist Church.
Jacob K. Chase	Tremont, Suffolk & Lawrence Corps.
Abiel H. Chase	
Alonzo B. Stevens	Choral Society.
Joseph B. Conner	Wentworth's Building.
Thaddeus S. Cobb,	Nabnassett Manufacturing Company.
Samuel Willey,,,	High Street Church.
Samuel Beck	Soc'y for prevent'n cruelty to animals.
Andrew A. Mason	Second Universalist Church.
Edward Garner	Hamilton Company.
Warren D. Foss	Railroad National Bank.
Joshua L. Draper	1st Society Spiritualists, Welles' Bl'k.
Moses Harmon,,	

CONSTABLES.

CHARLES P. BOWLES, BICKFORD LANG, THOMAS W. PRESSEY, JOHN H. NICHOLS, DEXTER SYMONDS, BRADFORD MARVEL,
DANIEL G. GREENLEAF,
DANIEL G. TAYLOR,
JAMES HOPKINS,
JACOB G. FAVOR.

[City Charter, Section 7; Ord. p. 168.]

TYTHINGMEN.

CHARLES P. BOWLES, LEVI BROWN, GEORGE W. SANBORN, ALFRED DAY, AUGUSTUS B. FOSS, BENJAMIN G. MOONEY, BICKFORD LANG,
HARRISON H. FULLER,
THOMAS J. SANBORN,
WILLIAM P. FARRINGTON,
JACOB G. FAVOR,
JESSE HUSE.

[Ord. p. 167.]

HEALTH COMMISSIONER.

CHARLES P. BOWLES.

[Chosen by concurrent vote, commencing in the Board of Aldermen, in January or February. Ord. p. 167.]

SURVEYORS OF LUMBER.

GEORGE W. KELLEY, LORENZO G. HOWE, JAMES N. MORSE, JOSHUA M. HADLEY, ALFRED P. BATEMAN,

STEPHEN C. DAVIS, LUTHER SMITH, SAMUEL NEWHALL, HENRY L. TIBBETTS, GEORGE A. ROPER,

AARON BLANCHARD.

[Four or more chosen by concurrent vote, commencing in the Board of Aldermen, in January or February. Ord. p. 167.]

FENCE VIEWERS.

LORENZO PHELPS,

JOSHUA M. HADLEY, ISAAC PAGE.

[Chosen by concurrent vote, commencing in the Board of Aldermen, in January or February. Ord. p. 167.]

FIELD DRIVERS.

CHARLES P. BOWLES, BICKFORD LANG,

THOMAS PAUL, FRANKLIN G. MORSE.

[Chosen by concurrent vote, commencing in the Board of Aldermen, in January or February. Ord. p. 167.]

POUND KEEPER.

Sylvester Crossy. [Chosen by concurrent vote, commencing in the Board of Aldermen, in January or February. Ord. p. 167.]

MEASURER OF WOOD AND BARK.—SUPERINTENDENT OF CITY SCALES.—INSPECTOR OF BALE OR BUNDLE HAY.

Sydney Davis. Office at City Scales, rear of Market House Building.

[Appointed by the Mayor and Aldermen in January or February. Ord. p. 168.]

WEIGHERS OF COAL.

SYDNEY DAVIS,

FRANK E. BENNETT.

[Appointed by the Mayor and Aldermen in January or February. Ord. p. 168, amended 1872.]

SEALER OF WEIGHTS AND MEASURES.

JOHN A. KNOWLES, JR..... Office at Mechanics' Mills.

[Appointed by the Mayor and Aldermen in January or February. Ord. p. 168.]

INSPECTOR OF MILK.

James W. Nash......Office at No. 126 Central Street.

[Appointed by the Mayor and Aldermen in January or February. Ord. p. 168.]

SURVEYORS OF PLASTERING, BRICK OR STONE WORK, AND PAINTING.

SAMUEL NEWHALL, RICHARD W. BAKER, CYRUS LATHAM, LUTHER SMITH,
JOSHUA M. HADLEY,
WILLIAM F. OSGOOD.

[Appointed by the Mayor and Aldermen in January or February. Ord. p. 168.]

MEASURERS OF GRAIN.

SAMUEL N. WOOD,

JAMES BERRY.

Fees $2\frac{1}{2}$ mills per bushel for measuring. [Appointed by the Mayor and Aldermen in January or February. Ord. p. 168.]

WEIGHER OF HAY AND OTHER ARTICLES.

ALANSON NICHOLS.

Forty per cent. of his fees are payable to the City, quarterly.

[Appointed by the Mayor and Aldermen in January or February.

Ord. p. 168.]

MEASURERS OF WOOD AND BARK BROUGHT BY WATER, OR RAILROAD CARS, INTO THE CITY.

SAMUEL NEWHALL,

LUTHER SMITH.

[Appointed by the Mayor and Aldermen in January or February. Ord. p. 168.] $\ \ _{\circ}$

UNDERTAKERS.

TERRENCE HANOVER,

JACOB B. CURRIER,

JAMES W. BROOKS.

[Appointed by the Mayor and Aldermen in April. Amended Ordinance, 1871.]

INSPECTORS OF PETROLEUM OILS.

DAVID CHASE,

George Hobson.

[Appointed by the Mayor and Aldermen. Chapter 262 of the Acts of 1866.]

CITY CRIER.

Frank W. Simonds.......Office, basement, 57 Central Street. [Appointed by Mayor and Aldermen in January or February. Ord. p. 168.]

MEASURERS OF UPPER LEATHER.

WILLARD A. BROWN, NATHAN W. FRYE, JOHN Q. A. HUBBARD, GEORGE W. EATON,

REVILO F. COOK.

[Appointed by the Mayor and Aldermen in April. Ord. p. 168.]

JANITOR OF HUNTINGTON AND JACKSON HALLS.

WARREN FLETCHER......[Appointed by the Mayor.]

FIRE DEPARTMENT FOR 1872-3.

The members of the Fire Department are appointed by the Mayor, subject to the confirmation or rejection of the Aldermen, on the first Wednesday in April, annually, and hold their respective offices for the term of one year from the first day of May next succeeding their appointment, provided, however, that vacancies may be filled at any time, and the Chief Engineer and the Assistant Engineers may be removed at any time by the Mayor and Aldermen.

[Ord. pp. 145, 168; Chap. 83 of the Acts of 1868.]

ASSISTANT ENG	INEERS.				
CHARLES H. ARLEN	. Perrin Street.				
SAMUEL W. TAYLOR	.172 Merrimack Corporation.				
WILLIAM W. BATES	.158 School Street.				
HIRAM N. HALL	.Elliott Street.				
Edward S. Hosmer	.2 Livermore Street.				
HIRAM N. HALL, Clerk of the Board	. (Chosen by the Engineers.)				

HIRAM N. HALL, Clerk of the Board. (Chosen by the Engineers.)					
,					
STEAM FIRE ENGINES.					
Hope Steam Fire Engine Company, No. 1.					
Middle Street					
HENRY W. BURTON, Foreman. JEWETT J. LOCKE, Engineer.					
Weight, 7,575 pounds. Cost,—. Built in 1870, by Union					
Machine Company, of Fitchburg.					
Torrent Steam Fire Engine Company, No. 2.					
Middlesex Street					
Ruel F. Britton, Foreman. George Maddocks, Engineer.					
Weight, 7,720 pounds. Cost, \$4000. Built in 1868, by Hunneman & Co., Boston.					
Wamesit Steam Fire Engine Company, No. 3.					

Relief Steam Fire Engine Company, No. 4.
Warren Street James P. Roberts, Engineer.
Weight, 8,300 pounds. Cost, \$3,000. Built in 1861, by Silsby,
Mynderse & Co., Seneca Falls, N. Y.
 -
HOSE CARRIAGES.
Ocean Hose Company, No. 1, Warren Street.
Cyrus E. Luscomb, Foreman
Mechanics' Hose Company, No. 2, Cross Street.
George T. Anthony, Foreman
Excelsior Hose Company, No. 3, Central Street.
James E. Hill, Foreman
Mazeppa Hose Company, No. 4, Fayette Street.
WILLIAM KING, Foreman
HOOK AND LADDER CARRIAGES.
Franklin Hook and Ladder Company, Middle Street. WILLIAM K. Doe, Foreman
WILLIAM R. DOE, Potenian
HAND ENGINES.
The Companies connected with the several Hand Engines were
abolished May 1, 1868. The following Hand Engine was kept as a reserve:
Rocket No. 2Ayer's City.

SUPERINTENDENT OF FIRE ALARM TELEGRAPH.
Torrey E. Stratton Engine House, Middle Street.
POLICE COURT.
NATHAN CROSBY Standing Justice.
George Stevens, John Davis, Special Justices.
Samuel P. Hadley, Jr., Clerk. (Chosen at the Municipal elec-
tion, 1871, and every fifth year thereafter, by the people. Gen. Stat.)

SCHOOL COMMITTEE, 1872.

Josiah G. Peabody, Chairman. John A. Goodwin, Vice-Chairman. Charles Morrill, Secretary.

MEMBERS OF THE SCHOOL COMMITTEE.

OSIAH	G. Peabody, Mayor]	En Or	Taita
TENRY	G. Peabody, Mayor P. Perkins, President of Common Cour	ncil		jieus.
Ward	1—James W. B. Shaw	\mathbf{Term}	expires	1872
	Frederic T. Greenhalge	"	"	1873
"	2—Ezra B. Aldrich	"	"	1872
	Joshua Merrill	"	"	1873
"	3—John F. Frye	"	cc	1872
	WALTER BURNHAM	"	"	1873
"	4—ABRAM FRENCH	44	"	1872
	WILLIAM H. ANDERSON	66	"	1873
"	5—Peter Lawson	"	"	1872
	Cyrus K. Russell	"	"	1873
"	6—John A. Goodwin	46	"	1872
	Benjamin J. Williams	46	44	1873

STANDING COMMITTEES,

- On Accounts—Messrs. Peabody, Perkins, Lawson, French and Anderson.
- On School-Houses—Messrs. Peabody, Merrill, Lawson, Shaw, and Burnham.
- On Teachers—Messrs. Frye, Goodwin, Merrill, Greenhalge and Anderson.
- On Reports—Messrs. Greenhalge, Goodwin, Williams, Russell and Burnham.

- On Books—Messrs. Anderson, Goodwin, Frye, Shaw, Aldrich and Williams.
- On Salaries—Messrs. Lawson, French, Peabody, Merrill and Williams.
- On Music-Messrs. Shaw, Perkins, Russell, Greenhalge and Aldrich.
- ON PENMANSHIP AND DRAWING—Messrs. Goodwin, Merrill, Perkins, Frye and Russell.
- ON EVENING Schools—Messrs. Merrill, Lawson, French, Aldrich and Frye.

SUB-COMMITTEES.

JOSIAH G. PEABODY—High School.

HENRY P. PERKINS-High School; Primaries 27, 42, 19, 39.

JOHN A. GOODWIN—High School; Primaries 14, 16, 25, 37, 52.

WILLIAM H. ANDERSON—High School; Primaries 5, 6, 15, 30.

FREDERIC T. GREENHALGE-High School; Primaries 2, 11, 26, 43.

EZRA B. ALDRICH—High School; Primaries 1, 3, 12, 23, 29.

James W. B. Shaw-Green; Primaries 8, 40, 45.

Joshua Merrill-Varnum; Primaries 46, 47, 48, 49.

JOHN F. FRYE—Edson; Primaries 4, 7, 18, 21.

Walter Burnham-Colburn; Primaries 24, 13, 20, 33.

ABRAM FRENCH-Franklin; Primaries 17, 34, 50, 28.

Peter Lawson—Bartlett; Primaries 10, 36, 38, 31.

Cyrus K. Russell-Mann; Primaries 44, 22, 41, 32.

Benjamin J. Williams-Moody; Primaries 9, 35, 51.

REGULAR MEETINGS OF THE SCHOOL COMMITTEE FOR 1872.

January 29, February 26, March 25, April 29, May 27, June 24, July 29, August 26, September 30, October 28, November 25, December 30.

CHARLES MORRILL, Superintendent of Public Schools.

Office at City Government Building.

OFFICE HOURS. From March 1st to October 31st, inclusive, one hour after morning session; from November 1st to the last day of February, inclusive, one hour after the atternoon session.

WARD OFFICERS, 1872.

WARD ONE.

Warden. John F. Howard. Clerk.... Charles H. Collins. Inspectors, Silas D. Gordon, Frank S. Wheeler, Samuel E. Hosmer.

WARD TWO.

Warden. James Witherhead.
Clerk..... William W. Sargent.
Inspectors, Edward T. Rowell,
George A. Saunders,
John McMonagle.

WARD THREE.

Warden. George Hobson.
Clerk....Alphonso T. Dickerman.
Inspectors, Milo G. Hallett,
Abner S. Adams,
John L. Meadowcroft.

WARD FOUR.

Warden. Benjamin F. Goddard. Clerk.... Edward P. Dennis. Inspectors, Alonzo K. Lynch, Julius C. Johnson, Asa C. Russell.

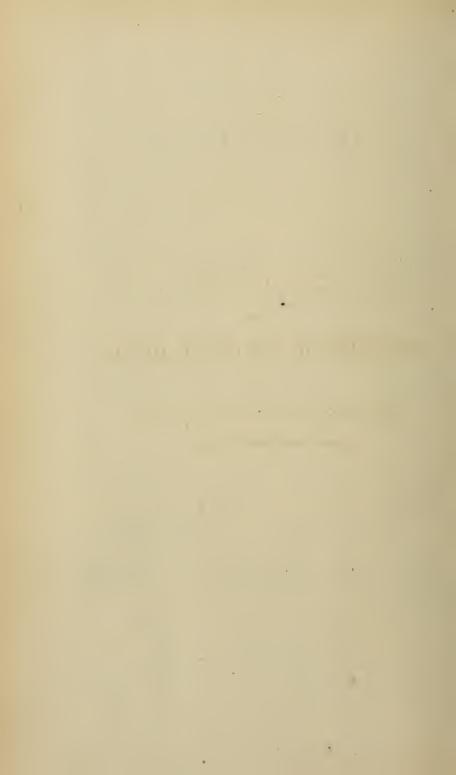
WARD FIVE.

Warden. . Charles H. Coburn.
Clerk.....Irving K. Goodale.
Inspectors, Albert W. Burnham,
Samuel P. Marin,
Alba G. Stiles.

WARD SIX.

Warden. Thomas J. Day.
Clerk.....Frank B. Wright.
Inspectors, Erastus Stearns,
C. Arthur Abbott,
Edward B. Peirce.

(Chosen annually at the Municipal Election, held on the Second Monday in December. Amendment to the City Charter, approved March 12, 1847.)



CATALOGUE

OF THE

GOVERNMENT OF THE CITY OF LOWELL,

IN

CHRONOLOGICAL ORDER OF SERVICE,

FROM ITS INSTITUTION, 1836, TO 1872.



Mayor:

ELISHA BARTLETT.

Aldermen:

William Austin, resigned Oct. 10, Joseph Tapley, elected November, Seth Ames, Aaron Mansur,

Benjamin Walker, Oliver M. Whipple, Alexander Wright.

SAMUEL A. COBURN, City Clerk.

Common Council:

John Clark, President, Henry J. Baxter, Jonathan Bowers, George Brownell, James Cook, David Dana, Erastus Douglass, Josiah B. French, Cyril French, Samuel Garland, Horatio W. Hastings, Horace Howard,

Stephen Mansur,
John Mixer,
Thomas Nesmith,
David Nourse,
Thomas Ordway,
James Russell,
John A. Savels,
Sidney Spalding,
Weld Spalding,
Jonathan Tyler,
Tappan Wentworth,
William Wyman.

GEORGE WOODWARD, Clerk, died. ALBERT LOCKE, elected.

1837.

Mayor:

ELISHA BARTLETT, †'36.

Aldermen:

Seth Ames, *'36, John Aiken, Seth Chellis, Joseph G. Kittredge, Joshua Swan, Alexander Wright, *'36.

SAMUEL A. COBURN, City Clerk.

Common Council:

WARD 1. Joshua Abbott, James K. Fellows,

Jesse Phelps, Walter Wright.

WARD 2.

William Fiske, Thomas Nesmith, '36. Josiah Osgood, Joseph Tyler.

WARD 3.
Joseph M. Dodge,
Elisha Huntington, President,
William North,
Joseph Tapley.

WARD 4. William Baker, Elijah M. Read, Charles H. Wilder, William W. Wyman.

WARD 5. George Brownell, '36, Osgood Dane, James Russell, '36. Tappan Wentworth, '36.

WARD 6. Andrew Bird, Benjamin H. Gage, Jona. T. P. Hunt, Abram Tilton.

ALBERT LOCKE, Clerk.

The figures without other marks indicate membership of the Common Council those years. † Mayor that year. * Alderman that year. ‡ President of Common Council that year.

Mayor:

LUTHER LAWRENCE.

Aldermen:

Benjamin F. French, Charles L. Tilden, Oliver M. Whipple, *'36, George H. Carleton, George Brownell, '36, '37, Seth Chellis, *'37.

THOMAS ORDWAY, City Clerk.

Common Council:

WARD 1.
Jesse Phelps, '37,
Walter Wright, '37,
Eliphalet Brown,
Perez Fuller.

WARD 2. William Fiske, '37. Aaron H. Sherman, William Upham, Henry J. Baxter, '36.

WARD 3.
Thomas Hopkinson,
Elisha Huntington, †'37, President,
Horace Howard, '36,
John Mixer, '36.

WARD 4. David Dana, '36, Perley Hale, Benjamin Walker, *'36, William Baker, '37.

WARD 5.
Garret J. Bradt,
Benjamin Wilde,
Erastus Douglass, *'36,
Rufus Paul.

WARD 6.
Eli Cooper,
Thomas L. Randlett,
James L. Foot,
Calvin Goodspeed.

ALBERT LOCKE, Clerk.

1839.

Mayor:

LUTHER LAWRENCE. — [Died in April.] ELISHA HUNTINGTON, ‡'37, ‡'38.

Aldermen:

Benjamin F. French, *'38, John O. Green, Charles L. Tilden, *'38,

George H. Carleton, *'38, John Clark, ‡'36, Oliver M. Whipple, *'36, *'38.

THOMAS ORDWAY, City Clerk.

Common Council:

WARD I. Walter Wright, '37, '38, Harlin Pillsbury, Eliphalet Brown, '38, Forrest Eaton.

WARD 2. Jonathan Tyler, '36," John Nesmith, Henry J. Baxter, '36, '38, Jefferson Bancroft.

WARD 3. Thomas Hopkinson, '38, President, Jacob Robbins, John G. Locke. WARD 4.
Benjamin Walker, *'36, '38, Samuel Horn,
Stephen Carleton,
Stephen Mansur, '36.
WARD 5.

WARD 5.
Tappan Wentworth, '36, '37,
Lewis McIntire, died Feb., '40,
Benjamin Wilde, '38,
Garret J. Bradt, '38.;

WARD 6.
Thomas L. Randlett, '38,
Joseph S. Holt,
John L. Fitts,
Daniel Knapp.

ALBERT LOCKE, Clerk.

Mayor:

ELISHA HUNTINGTON, \$\frac{1}{2}7, \frac{1}{2}8, \frac{1}{3}9.

Aldermen:

Jonathan Tyler, '36, '39, John R. Adams, Joseph Bedlow,

Harlin Pillsbury, '39, Seth Ames, *'36, *'37, Stephen Mansur, '36, '39.

THOMAS ORDWAY, City Clerk.

Common Council:

WARD I. Forrest Eaton, '39, Sylvanus Adams, Henry Patch, R. M. Hutchinson.

WARD 2. Jefferson Bancroft, '39, John Nesmith, '39, Joseph G. Kittredge, *'37, Josiah Osgood, '37.

WARD 3. Pelham W. Warren, President, Abner W. Buttrick, Asa Hall. Samuel Burbank.

WARD 4. Ferdinand Rodliff, Ethan Burnap, Edward F. Watson, B. Walker, *'36, '38, '39, died Sept. WARD 5

Tappan Wentworth, '36, '37, '39, Samuel W. Brown, John J. Crane, George Dane.

WARD 6. Daniel Knapp, '39. George L. Fitts, '39, Joseph Battles, Joshua Converse.

ALBERT LOCKE, Clerk, died October. JOHN G. LOCKE, elected October.

1841.

Mayor:

ELISHA HUNTINGTON, ; '37, ; '38, † '39, † '40.

Aldermen:

Seth Chellis, *'37, '38, Jefferson Bancroft, '39, '40, Cyril French, '36,

George H. Carleton, *'38, *'39, John R. Adams, *'40. John Aiken, *'37.

THOMAS ORDWAY, City Clerk.

Common Council:

WARD I. Henry Patch, '40, George Bragdon, John W. Holland, Arnold Welch.

WARD 2. William Fiske, '37, '38, Erasmus D. Leavitt, Jonathan White, Nathaniel Wilson.

WARD 3. Samuel Burbank, '40, Nathaniel Critchett, Royal Southwick, Edward Winslow.

WARD 4. Ethan Burnap, '40, William Livingston, John Morrison, Edward F. Watson, '40.

WARD 5. Tappan Wentworth, '36, '37, '39, '40, President, Samuel W. Brown, '40, John J. Crane, '40, Phineas Whiting.

WARD 6. Francis H. Bowers, Isaac H. Cooper, William Potter, John Smith.

Mayor:

NATHANIEL WRIGHT.

Aldermen:

Nathaniel Thurston, Jefferson Bancroft, '39, '40, '41, Cyril French, '36, *'41, William Livingston, '41, Ithamar A. Beard, John W. Graves.

THOMAS ORDWAY, City Clerk.

Common Council:

WARD I.

Jeremiah P. Jewett, John Hadley, James Townsend, Edward J. Payne.

WARD 2. John Nesmith, '39, '40, Erasmus D. Leavitt, '41, Joseph W. Mansur, *President*, James Hopkins.

WARD 3. Nathaniel Critchett, '41, Ira Spalding, John Mead, Asa W. Willoughby. WARD 4.
John Morrison, '41,
William Carlton,
Oliver March,
Josiah B. French, '36.

WARD 5.
James Patterson,
Isaac Appleton,
Josiah Seavey,
Roswell Douglass.

WARD 6. James Russell, '36, '37, Jonathan Kendall, Varnum A. Shed, Isaac N. Fitts.

JOHN G. LOCKE, Clerk.

1843.

Mayor:

NATHANIEL WRIGHT, †'42.

Aldermen:

Harlin Pillsbury, '39, *'40, res'd June, Henry C. Johnson, Cyril French, '36, *'41, *'42, S. Spalding, '36, resigned in June. Joseph Griffin, Charles L. Tilden, *'38, '39.

THOMAS ORDWAY, City Clerk.

Common Council:

WARD I.

Daniel Bixby, Edward J. Payne, '42, Hugh Cummiskey, Walter Wright, '37, '38, '39.

WARD 2. Henry J. Baxter, '36, '38, '39, John P. Simonds, Pliny Lawton, Ben Osgood.

WARD 3. John Mead, '42, Willard Brown, Ira Spalding, '42, Benjamin J. Gerrish.

Ward 4. Otis Allen, Alfred Gilman, Oliver March, '42, *President*,

WARD 5. James Patterson, 42, David Bradt, John L. Tripp, Benjamin F. Holden,

William Carlton, '42.

WARD 6.
John B. McAlvin,
Cyrus Battles,
Sewall G. Mack,
Charles F. Mitchell.

Mayor: •

ELISHA HUNTINGTON, ‡'37, ‡'38, †'39, †'40, †'41.

Aldermen:

Henry Smith, Selwin Bancroft, O. M. Whipple, *'36, *'38, *'39,

Edward F. Watson, '40, '41, Joseph Griffin, * '43, John Wright.

Thomas Ordway, City Clerk.

Common Council:

WARD I. Forrest Eaton, '39, '40, Gilman N. Nichols, Hugh Cummiskey, '43, David Healey.

WARD 2, John P. Simonds, '43, Ben Osgood, '43, Amos Merriam, John Clark, ‡'36, *'39, President.

WARD 3. Charles B. Coburn, George Choate, Isaac Scripture, William C. Gray. WARD 4. Asa Wetherbee, Abner W. Buttrick, '40, Horatio G. F. Corliss, Charles H. Wilder, '37.

WARD 5.
John L. Tripp, '43,
David Bradt, '43,
John Wright,
Nathaniel Wright, Jr.

WARD 6. Sewall G. Mack, '43, James Russell, '36, '37, '42, Jonathan Kendall, '42, Gilman Gale,

JOHN G. LOCKE, Clerk.

1845.

Mayor:

ELISHA HUNTINGTON, ‡'37, ‡'38, †'39, †'40, †'41, †'44.

Aldermen:

Henry Smith, *'44, Selwin Bancroft, *'44, O. M. Whipple, *'36, *'38, *'39, *'44,

Edward F. Watson, '40, '41, *'44, John C. Dalton, Daniel Knapp, '39.

THOMAS ORDWAY, City Clerk.

Common Council:

WARD I.
Gilman N. Nichols, '39,
Danforth P. Brigham,
Jonathan Adams,
Willard C. Welch,

WARD 2.
John P. Simonds, '43, '44,
Daniel Balch,
William Brown,
Daniel S. Richardson, President.

WARD 3. Isaac Scripture, '44, William C. Gray, '44, George Choate, '44, Hapgood Wright.

WARD 4. Abner W. Buttrick, '40, '44, Asa Wetherbee, '44, Charles H. Wilder, '37, '44, Josiah Sawtell.

WARD 5. Nathaniel Wright, Jr., '44, Amos Hyde, Edward Sherman, James Fenno.

WARD 6. Gilman Gale, '44, John B. McAlvin, '43, Samuel Fay, Jr., Lorenzo P. Wright.

Mayor:

JEFFERSON BANCROFT, '39, '40, *'41, *'42.

Aldermen:

Henry Smith, *'44, *'45, Selwin Bancroft, '44, *'45, William C. Gray, '44, '45, Joseph Butterfield, John C. Dalton, '45, D. Knapp, '39. *'45, resigned July, Isaac Cooper, '41, elected August.

THOMAS ORDWAY, City Clerk.

Common Council:

WARD I. Gilman N. Nichols, '39, '45, Danforth P. Brigham, '45, Willard C. Welch, '45, Thomas S. Hutchinson.

WARD 2.
Daniel Balch, '45,
William Brown. '45,
Daniel S. Richardson, ‡'45, President,
Zadock Rogers.

WARD 3. Hapgood Wright, '45, Isaac Farrington, Joel Powers, Franklin Mead. WARD 4.
Josiah Sawtell, '45,
Solon Stevens,
David J. Moody,
William Fletcher.

WARD 5. Amos Hyde, '45, Horatio G. F. Corliss, '44, Jonathan Bowers, '36, Charles M. Short.

Ward 6. Lorenzo P. Wright, '45, John L. Fitts, '39, '40, Lewis Packard, Columbus J. Hubbard.

JOHN G. LOCKE, Clerk.

1847.

Mayor:

JEFFERSON BANCROFT, '39, '40, *'41, *'42, †'46.

Aldermen:

George Bragdon, Joseph Butterfield, * '46, Linus Chilc., James Fenno, '45, Elisha Huntington, ‡'37, ‡'38, †'39, †'40, †'41, †'44, †'45; Sewall G. Mack, '43, '44, Stephen Mansur, '36, '39, *'40, Josiah Sawtell, '45, '46.

THOMAS ORDWAY, City Clerk.

Common Council:

WARD I.
William Conihe,
James C. Crombie,
David S. Bachelder,
Jesse Huse.

WARD 2. Samuel W. Brown, '40, '41, Hannibal Powers, William Newman, Otis L. Allen.

WARD 3. Joel Powers, '46, Franklin Mead, '46, Isaac Farrington, '46, Samuel G. Davis. WARD 4.
Joel Adams, *President*,
Horatio Fletcher,
Solon Stevens, '46,
Stephen A. Coburn.

WARD 5. Ignatius Tyler, Edward C. Johnson, Elihu Gates. Charles M. Short, '46.

WARD 6.
Thomas Wentworth,
Isaac N. Parker,
John R. Southwick,
Isaiah Morse.

Mayor:

JEFFERSON BANCROFT, '39, '40, * '41, * '42, † '46, † '47.

Aldermen:

David Dana, '36, '38, Erastus Douglass, '36, '38, Jacob Graves, resigned in June, William Newman, '47,
THOMAS ORDWAY, City Clerk.

Gilman N. Nichols, '39, '45, '46, Daniel S. Richardson, ‡ '45, ‡ '46, Josiah Sawtell, '45, '46, * '47, O. M. Whipple, * '36, * '38, * '39, * '45.

Common Council:

WARD I. William Conihe, '47, James C. Crombie, '47, Jesse Huse, '47, Gerry Wilson

WARD 2. Otis L. Allen, '47, William H. Flagg, John Nesmith, '39, '40, '42, Hannibal Powers, '47.

WARD 3. Alfred Gilman, '43, Thomas Hopkinson,'38,'39, President, Ransom Reed, Nathaniel Critchett, '41, '42.

Ward 4. John Avery. Otis Allen, '43, Abiel Rolfe, Horace Howard, '36, '38.

WARD 5. Ignatius Tyler, '47, Elihu Gates, '47, Edward C. Johnson, '47, Charles M. Short, '46, '47.

WARD 6. Thomas Wentworth, '47, Isaac N. Parker, '47, Jeremiah M. Currier, Horace Parmenter.

JOHN G. LOCKE, Clerk.

1849.

Mayor:

JOSIAH B. FRENCH, '36, '42.

Aldermen:

James B. Francis, Cyril French, '36, * '41, * '42, * '43, James H. B. Ayer,

Daniel D. Crombie, THOMAS ORDWAY, City Clerk.

Daniel Carter, George Brownell, '36, '37, *'38, Artemas L. Brooks, Joseph Bedlow, *'40.

Common Council:

WARD I. Jesse Huse, '47, '48. resigned Feb., William A. Richardson, elected Mar., Gerry Wilson, '48, John W. Smith, Alfred S. Saunders.

WARD 2. William H. Flagg, '48, Ivers Taylor, Isaac S. Morse, resigned, Ambrose Lawrence.

WARD 3. Alfred Gilman, '43, '48, Elisha Davis, James Dinsmoor, Andrew C. Wheelock.

WARD 4. Nathaniel B. Favor, Caleb Crosby, Ezekiel Wright, Waldo A. Fisher.

Ward 5. Maynard Bragg, Joshua Decatur, Abram T. Melvin, W. W. Morse.

WARD 6. William Lamson, Jr., Jeremiah M. Currier, '48, George S. Wright, John Aiken, *'37, *'41, President.

GEORGE A. BUTTERFIELD, Clerk.

Mayor:

JOSIAH B. FRENCH, '36, '42, †'49.

Aldermen:

James H. B. Ayer, *'49, Joseph Bedlow, *'40, *'49, Daniel D. Crombie, *'49, James B. Francis, *'49, Philip Hardy, John Mixer, '36, '38, Josiah G. Peabody, James Townsend, '42.

THOMAS ORDWAY, City Clerk.

Common Council:

WARD 1.
John W. Smith. '49,
Daniel R. Kimball,
James Watson,
Jonathan Smothers.

WARD 2. Ivers Taylor, '49, President, George Gardner, Samuel Lawrence, 2d, Samuel J. Varney.

WARD 3.
Jonathan Page,
John Tripp,
Fordyee Coburn,

Joshua Merrill. Wm. Lamson, Jr., '49, res'd May. Geo. A. Butterfield, *Clerk*, res'd May. Wm. Lamson, Jr., elected May.

WARD 4.
Abner W. Buttriek, '40, '44, '45,
Caleb Crosby, '49.
Benjamin Goddard,
Nathaniel B. Favor, '49.

WARD 5.
George P. Elliot,
William Fiele, '37, '38, '41,
George W. Worthen,
Maynard Bragg, '49.
WARD 6.

Albert Mallard, Stephen P. Sargent, George S. Wright, '49, Wm. Lamson, Jr., '49, res'd May.

1851.

Mayor:

JAMES H. B. AYER, *'49, *'50.

Aldermen:

William Fiske, '37, '38, '41, '50, Ambrose Lawrence, '49, James Townsend, '42, *'50, Philip Hardy, *'50, William North, '37, Abiel Rolfe, '48, Lueius A. Cutler, Joshua Converse, '40.

THOMAS ORDWAY, City Clerk.

Common Council:

WARD I. James Watson, '50, Charles B. Coburn, '44, Stephen Moar.

WARD 2. Linus Child, *'47, George Gardner, '50, *President*, Samuel J. Varney, '50, Zaehariah B. Caverly.

WARD 3. Fordyce Coburn, '50, William Twiehell, Darius C. Brown, Benjamin C. Sargeant.

WARD 4. Benjamin Goddard, '50, Riehard Dennis, Holland Streeter, Solomon D. Emerson.

WARD 5. George P. Elliot, '50, Edward Fifield, John N. Ford. Theodore H. Sweetser.

WARD 6. George W. Worthen, '50, George W. Jones, died Sept., Stephen P. Sargent, '50, Albert Mallard, '50.

WILLIAM LAMSON, JR., Clerk.

Mayor:

ELISHA HUNTINGTON, †'37,†'38,†'39,†'40,†'41,†'44,†'45,*'47.

Aldermen:

Joseph Bedlow, *'40, *'49, *'50, Joseph M. Bullens, Samuel Burbank, '40, '41, Joseph B. V. Coburn,

Samuel J. V THOMAS ORDWAY, City Clerk.

Wm. Fiske, '37, '38, '41, '50, * '51, William North, '37, * '51, Alpha Stevens, Samuel J. Varney, '50, '51.

Common Council:

WARD 1.
Rufus Rogers,
John C. Smith,
Jeremiah Clark,
Paul Hill.

WARD 2.

Paul Perkins, Milton Bonney, William Hovey, Zachariah B. Caverly, '51.

WARD 3.
Darius C. Brown, '51,
William Twichell, '51,
Benjamin C. Sargeant, '51, President,
Michael B. Caswell.

WARD 4. Holland Streeter, '51, Elbridge Livingston, Abram French, Willard Minot.

WARD 5. Edward Fifield, '51, Phineas Whiting, '41, George W. Patterson, Jonathan Kendall, '42, '44.

WARD 6. Leonard W. Jaquith, Seth Pooler, Caleb G. Weaver, William C. Parker.

WILLIAM LAMSON, JR., Clerk.

1853.

Mayor:

SEWALL G. MACK, '43, '44, *'47.

Aldermen:

Elisha Huntington, ‡'37, ‡'38, †'39, †'40, †'41, †'44, †'45, *'47, †'52, Samuel K. Hutchinson, Stephen Mansur, '36, '39, *'40, * 47, Joseph B. V. Coburn, *'52,

n: Ira Spalding, '42, '43, Joseph M. Bullens, *'52, Alpha Stevens, *'52, Joseph White.

THOMAS ORDWAY, City Clerk.

Common Council:

WARD 1. Rufus Rogers, '52, John C. Smith, '52, Marcus A. Thomas, James Cook, '36.

WARD 2. Paul Perkins, '52, Milton Bonney, '52, George G. Bumpus, George W. Stanley.

WARD 3. Michael B. Caswell, '52, Calvin Philbrick, Leonard Brown, Henry H. Wilder. WARD 4. Abram French, '52, Henry C. Howe, Joseph S. Grush, Samuel K. Pickering.

WARD 5. George W. Patterson, '52, Wm. A. Richardson, '49. *Presid't*, Patrick Conlan, Jonathan Bowers.

WARD 6. Caleb G. Weaver, '52, William C. Parker, '52, George F. Woods, C. F. Blanchard.

WILLIAM LAMSON, JR., Clerk.

Mayor:

SEWALL G. MACK, '43, '44, *'47, †'53.

Aldermen:

Elisha Huntington, ‡'37,‡'38,†'39,†'40, †'41, †'44, †'45, *'47, †'52, *'53, J. B. V. Coburn, *'52, *'53, res'd Jan., Samuel K. Hutchinson, *'53, Ira Spalding, '42, '43, *'53,
WILLIAM LAMSON, JR., City Clerk.

Joseph White, *'53, Horatio Fletcher, '47, C. F. Blanchard, '53, Charles Sperry.

Common Council:

WARD I. John C. Smith, '52, '53, Paul Hill, '52, Marcus A. Thomas, '53, Thomas Lennon.

WARD 2. George W. Stanley, '53, William H. Gage, Amos A. Taylor, William H. Bradley.

WARD 3. Calvin Philbrick, '53, Leonard Brown, '53, declined, Darius C. Brown, '51, '52, elected, Henry H. Wilder, '53, Peter O. C. Frawley.

WARD 4. Henry C. Howe, '53, Joseph S. Grush, '53, Samuel K. Pickering, '53, Hubbard Wilson.

WARD 5. William A. Richardson, '49, ‡'53, President, Jonathan Bowers, '53, Patrick Conlan, '53, John C. Woodward.

WARD 6. George F. Woods, '53, Charles S. Eastman, Levi H. Straw, William P. Webster.

LEONARD BROWN, Clerk.

1855.

Mayor:

AMBROSE LAWRENCE, '49, '51.

Aldermen:

Wm. Fiske, '37, '38, '41, '50, *'51, * '52, Artemas L. Brooks, * '49, Daniel Woodward, Lorenzo G. Howe,

Andrew T. Nute, Abner Frost, William S. Johnston, Shadrach R. Brackett.

WILLIAM LAMSON, JR., City Clerk.

Common Council:

WARD I. Maynard Bragg, '49, '50, Aaron B. Young, Augustus B. Roby, George L. Harris.

WARD 2. William G. Morse, George K. Paul, Mark H. Cook, Joseph A. Patten.

WARD 3. Alfred Gilman, '43, '48, '49, President, Daniel Hurd, Theodore Warren, Stephen K. Fielding.

Ward 4. Joshua W. Daniels, John Bennett, Alanson Folsom, Francis H. Nourse.

WARD 5. John C. Woodward,'54, Stephen Bartlett, Jonathan Johnson, Oliver P. Rand.

WARD 6. Levi H. Straw, '54, William T. Whitten, Lucien P. Stacy, James M. Moore.

LEONARD BROWN, Clerk.

Mayor:

ELISHA HUNTINGTON, ‡'37, ‡'38, †'39, †'40, †'41, †'44, †'45, †'47, †'52, *'53, *'54.

Aldermen:

Edward Tuck,
Samuel Burbank, '40, '41, *'52,
Charles B. Coburn, '44,
William P. Webster, '54,
Hapgood Wright, '45, '46,
WILLIAM LAMSON, JR., City Clerk.

Charles H. Wilder, '37, '44, '45, O. J. Conant, resigned in March, James H. Rand, Jonathan Johnson, elected in June.

Common Council:

WARD I. Enos O. Kingsley, Abiel Pevey, David M. Collins, Marshall E. Thompson. WARD 2.

Isaac Hinckley, Seth Gage, Peter Flanders, Jr., Leonard F. Jewell.

WARD 3. David Rogers, Benj. C. Sargeant, '51, ‡'52, President, Henry H. Carroll, Peter Powers. WARD 4. Francis H. Nourse, '55, Alden B. Buttrick, Holland Streeter, '51, '52, James Sands.

WARD 5. Frederick Holton, Isaac Place, Albert Wheeler, Abiel Rolfe, '48, *'51.

WARD 6. Eliphalet Hills, Jonathan P. Folsom, James K. Fellows, '37, John K. Chase.

JAMES J. MAGUIRE, Clerk.

1857.

Mayor:

STEPHEN MANSUR, '36, '39, *'40, *'47, *'53.

Andrew T. Nute, *'55,
John C. Woodward, '54, '55,
Jonathan Smothers, '50, '51,
Samuel W. Stickney,
WILLIAM LAMSON, JR., City Clerk.

John B. Tuttle, Francis H. Nourse, '55, '56, Jonathan Johnson, '55, * '56, John Nesmith, '39, '40, '42, '48.

Common Council:

WARD I. Abiel Pevey, Stephen T. Stanley, Charles A. Welch, George F. Scribner.

WARD 2. William G. Morse, '55, William D. Vinall, Temple Tebbetts, James M. Howe.

WARD 3.
Benjamin C. Sargeant, '51, ‡'52, ‡'56,
David Rogers, '56,
Henry H. Carroll, '56,
Nathan Allen.

WARD 4. Caleb Crosby, '49, '50, John F. Howe, John C. Jepson, Alanson Nichols.

Ward 5. Frederick Holton, '56, President, William H. Wiggin, William Goodale, Charles Hubbard.

WARD 6. Erastus Boyden, Jonathan Kimball, Robert J. Garrett, William Nichols.

HENRY A. LORD, Clerk.

Mayor:

ELISHA HUNTINGTON, ‡'37, ‡'38, †'39, †'40, †'41, †'44, †'45, †'47, †'52, *'53, *'54, †'56.

Aldermen:

Sewall G. Mack, '43, '44, *'47, †'53, †'54, Samuel W. Stickney, *'57, Abiel Pevey, '56, '57, Jeremiah P. Jewett, '42,

Joseph M. Dodge, '37, Harvey Silver, Albert Wheeler, '56, Edwin A. Alger.

JOHN H. McALVIN, City Clerk.

Common Council:

WARD I. Charles Wilkins, John M. Maynard, John E. Webb, William Barnard.

WARD 2. Edward Tuck, *'56, William P. Webster, '54, *'56, Andrew Blood, William F. Salmon.

WARD 3.
Benjamin C. Sargeant, '51, ‡'52, ‡'56, '57, President,
Hanover Dickey,
Joseph A. Brabrook,
Benjamin S. Butterworth.

WARD 4. Enoch P. Young, Zephaniah Goward, Jesse Blake, John F. Howe, '57.

WARD 5. Willard Dudley, Samuel T. Manahan, Isaac Page, John Avery, 2d.

WARD 6.
William Nichols, '57,
Alpha B. Farr, resigned in Jan.,
Leonard Brown, '53,'54, elec'd Feb.
Erastus Boyden, '57,
James II. Rand,*'56, resign'd May,
Eben'r Burgess, elected in June.

GEORGE GARDNER, Clerk.

1859.

Mayor:

JAMES COOK, '36, '53. Aldermen:

Lorenzo G. Howe, *'55,
Samuel J. Varney, '50, '51, *'52,
Paul Hill, '52, '54,
Ambrose Lawrence, '49, '51, †'55, resigned in April,
Darius C. Brown, '51, '52,

John F. Howe, '57, '58,
JoshuaConverse, '40, *'51, re'd Apr.
J. P. Folsom, '56, resign'd in April,
Edward Tuck, *'56, '58, elect'd May,
Sam'l T. Manahan, '58, elec'd May,
Jonathan Ladd, elected in May.
John H. McAlvin, City Clerk.

Common Council:

WARD I. John E. Webb, '58, Charles Wilkins, '58, William Barnard, '58, William D. Blanchard.

WARD 2. W. P. Webster, '54, *'56, '58, President, William F. Salmon, '58, James M. Howe, '57, David Nichols.

WARD 3.
George Hobson,
Asahel D. Puffer,
John Willoughby,
Benjamin S. Butterworth, '58.

WARD 4.
Caleb Crosby, '49, '50, '57,
Jesse Blake, '58,
George W. Partridge,
George W. Young.

WARD 5. Horatio G. F. Corliss, '44, '46, Luther B. Morse, Josiah G. Peabody, *'50, William Goodale, '57.

WARD 6. Charles A. Stott, Levi Sprague, Ebenezer Burgess, '58, Leonard Brown, '53, '54, '58.

Mayor:

BENJAMIN C. SARGEANT, '51, ‡'52, ‡'56, '57, ‡'58.

Aldermen:

Edward F. Watson, '40, '41, *'44, *'45, Lorenzo G. Howe, *'55, *'59, James Watson, '50, '51, William G. Morse, '55, '57, Henry H. Wilder, '53, '54, Abner Frost, *'55, Samuel T. Manahan, '58, *'59, William S. Gardner.

JOHN H. McALVIN, City Clerk.

Common Council:

WARD I. Benjamin S. Ireson, Enoch Quimby, John P. Slocum, Amos H. Foster.

WARD 2. Henry P. Clough, Alfred S. Saunders, '49, Wm. F. Salmon, '58, '59, President, Joseph L. Sargent.

WARD 3. George Hobson, '59, Josiah B. Fielding, Henry P. Perkins, Hocum Hosford.

WARD 4.
George W. Partridge, '59,
George W. Young, '59,
Morrill M. Bohonan,
Caleb Crosby, '49, '50, '57, '59.
WARD 5.

WARD 5. Josiah G. Peabody, *'50, '59, Sullivan L. Ward, George F. Morey, William H. Lamson.

WARD 6. William Nichols, '57, '58, Samuel T. Lancaster, Charles A. Stott, '59, Foster Nowell.

GEORGE GARDNER, Clerk.

1861.

Mayor:

BENJAMIN C. SARGEANT, '51, ‡'52, ‡'56, '57, ‡'58, †'60.

Aldermen:

Samuel T. Manahan, '58, *'59, *'60, Jonathan P. Folsom, '56, *'59, James Watson, '50, '51, *'60, William G. Morse, '55, '57, *'60, Hocum Hosford, '60,

WARD I.

Aldis L. Waite, David Whitney, declined acceptance, Sager Ashworth, elected in May, William S. Gardner, *'60.

JOHN H. McAlvin, City Clerk.

Common Council:

Frank E. Jewett, M. Gilbert Perkins, Jacob Baron, William D. Blanchard, '59.

WARD 2.
Alfred S. Saunders, '49, '60,
Joseph L. Sargent, '60,
Henry P. Clough, '60,
Henry S. Orange.

WARD 3. William L. North, President, George W. Norris, Henry P. Perkins, '60, James G. Morrison. WARD 4. Joseph Cater, Joseph B. Keyes, Morrill M. Bohonan, '60, Abel M. Ayer.

WARD 5. Sullivan L. Ward, '60, Samuel Beck, William H. Parker, George F. Morey, '60.

WARD 6. Samuel T. Lancaster, '60, Foster Nowell, '60, Elon A. Sanborn, George E. Dana.

Mayor:

HOCUM HOSFORD, '60, * '61.

Aldermen:

Mertoun C. Bryant, Edwin A. Alger, *'58, James B. Francis, *'49, *'50, William A. Burke, Isaac F. Scripture, Aldis L. Waitę, *'61, Albert Wheeler, '56, *'58, Jona. P. Folsom, '56, *'59, *'61.

JOHN H. McAlvin, City Clerk.

Common Council:

WARD Amos D. Wright, Frank E. Jewett, '61, Horatio G. Burgess, Charles F. Hard.

WARD 2.
Benedict O. Carpenter,
William T. McNeill,
Lorenzo G. Howe, * '55, * '58, * '60,
Henry S. Orange, '61.

WARD 3. George W. Norris, '61, Edmund D. Fletcher, Everett W. French, John Quinn. WARD 4. Joseph B. Keyes, '61, George Runels, John Pettingell, Hubbard Willson, '54.

WARD 5. Rollin C. Downs, Albert Mallard, '50, '51, Edward Fifield, '51, '52, Cleveland J. Cheney.

WARD 6. Geo. F. Richardson, *President*, Albion J. Dudley, Elon A. Sanborn, '61, Frederick Frye.

GEORGE GARDNER, Clerk.

1863.

Mayor:

HOCUM HOSFORD, '60, *'61, †'62.

Aldermen:

James B. Francis, *'49, *'50, *'62, Edwin A. Alger, *'58, *'62, Abiel Pevey, '56, '57, *'58, William A. Burke, *'62,

Isaac F. Scripture, *'62, Otis Allen, '43, '48, Albert Wheeler, '56, *'58, *'62, William Nichols, '57, '58, '60.

JOHN H. McAlvin, City Clerk.

Common Council:

WARD 1. Charles F. Hard, '62, Amos D. Wright, '62, John Cosgrove, William A. Wright.

WARD 2. George F. Sawtell, Henry S. Orange, '61, '62, Hugh McEvoy, Nathaniel Stearns.

WARD 3. Everett W. French, '62, Fordyce Coburn, '50, '51, Edmund D. Fletcher, '62, John Quinn, '62. WARD 4.
Atwell F. Wright,
Josiah Gates,
William Stafford,
John McCann.

WARD 5.
James C. Ayer,
Charles W. Saunders,
Cyrus H. Latham,
John E. Downs.

WARD 6. Geo. F. Richardson, ‡'62, *Pres.*, Albion J. Dudley, '62, Benedict O. Carpenter, '62, Frederick Frye, '62.

Mayor:

HOCUM HOSFORD, '60, * '61, † '62, † '63.

Aldermen:

William S. Southworth, James B. Francis, *'49, *'50, *'62, *'63, Dana B. Gove, William T. McNeill, '62,

JOHN H. McALVIN, City Clerk.

George W. Norris, '61, '62, George Runels, '62, Cyrus H. Latham, '63, George F. Richardson, ‡'62, ‡'63.

Common Council:

WARD I. Alden B. Watson, Lewis L. Perrin, Frederick S. Tukey, John Cosgrove, '63.

WARD 2. George Ripley, President, Andrew F. Jewett, Artemas S. Young, Hoyt W. Hilton.

WARD 3. Samuel N. Wood, Charles W. Dodge, Joseph S. Pollard, James G. Morrison, '61. WARD 4. Atwell F. Wright, '63, Daniel Churchill, William W. Sherman, Francis Jewett.

WARD 5.
John E. Downs, '63,
Thos. G. Gerrish, res'd June 14,
Charles Hubbard, '57,
Cleveland J. Cheney, '62.

WARD 6. Levi Sprague, '59, Tobias L. P. Lamson, Addison Putnam, Albion J. Dudley, '62, '63.

GEORGE GARDNER, Clerk.

1865.

Mayor:

JOSIAH G. PEABODY, *'50, '59, '60.

Aldermen:

Ew'd F.Watson,'40, '41, *'44, *'45, *'60, George W. Norris, '61, '62, * '64, Dana B. Gove, *'64, William T. McNeill, '62, * '64,

Henry H. Wilder, '53, '54, *'60, Josiah Gates, '63, Cyrus H. Latham, '63, *'64, William Brown, '45, '46.

JOHN H. McALVIN, City Clerk.

Common Council:

WARD I. Alden B. Watson, '64, Lewis L. Perrin, '64, George N. Osgood, John R. Southwick, '47.

WARD 2. George Ripley, ‡ '64, President, Andrew F. Jewett, '64, Julian V. Keyes, Chester W. Rugg.

WARD 3. Joseph S. Pollard, '64, Charles W. Dodge, '64, Edward C. Rice, Frederick T. North. WARD 4. Francis Jewett, '64, Benjamin Walker, Benjamin L. Googins, John Pearson.

WARD 5. Charles Hubbard, '57, '64, James Kent, Simeon D. Osterhoudt, James Foster.

WARD 6.
Tobias L. P. Lamson, '64,
Luke C. Dodge,
Gustavus A. Gerry,
James M. Moore, '55.

Mayor:

JOSIAH G. PEABODY, *'50, '59, '60, †'65.

Aldermen:

Samuel A. Brown, Albert B. Plimpton, John R. Southwick, '47, '65, Joseph L. Sargent, '60, '61,

Charles W. Dodge, '64, '65,
Josiah Gates, '63, * '65,
Henry M. Hooke,
Albion J. Dudley, '62, '63, '64.

JOHN H. McALVIN, City Clerk.

Common Council:

WARD I. William A. Hodge, William A. Wright, '63, Jacob Baron, '61, Rollin C. Downs, '62.

WARD 2. Andrew F. Jewett, '64, '65, George H. Whitmore, Julian V. Keyes, '65, Chester W. Rugg, '65.

WARD 3. Edward C. Rice, '65, Frederick T. North, '65, James N. Pinkham, Oliver W. Smith. WARD 4.
Benjamin L. Googins, '65,
Alfred Scott,
Thomas F. Burgess,
Benjamin Walker, '65.

WARD 5. Robert H. Butcher, John T. Lee, George L. Huntoon, Jonathan Johnson, '55, *'56, *'57.

WARD 6.
Gustavus A. Gerry, 65, *President*,
Luke C. Dodge, 65,
Charles A. Kimball,
Alfred H. Chase.

GEORGE GARDNER, Clerk.

1867.

Mayor:

GEORGE F. RICHARDSON, ‡'62, ‡'63, *'64.

Aldermen:

Charles B. Coburn, '44, '51, *'56, Hocum Hosford, 60, *'61, †'62, †'63, †'64, John R. Southwick, '47, '65, *'66, Joseph L. Sargent, 60, '61, *'66, Edward C. Rice, '65, '66,

WARD I.

Abner W. Buttrick, '40,'44,'45,'50; died June 29, '67.
Wm. E. Livingston, el. Sept. 9,'67.
Wm. H. Parker, '61,
Albion J. Dudley,'62, 63, 64, *'66.

JOHN H. McALVIN, City Clerk.

Common Council:

John Shepard, Calvin Sawtell, Foster Wilson, M. Gilbert Perkins, '61.

WARD 2. Gustavus A. Gerry, '65, ‡ '66, President, Ruel J. Walker, William Dobbins, Silas Tyler, Jr.

WARD 3.
Jona. P. Folsom, '56, *'59, *'61, *'62,
Frederick T. North, '65, '66,
Samuel D. Prescott,
Nathan M. Wright.

WARD 4.
John B. Hunt,
John Q. A. Hubbard,
Alfred Scott, '66,
Thomas F. Burgess, '66.

WARD 5. George L. Huntoon, '66, George S. Cheney, James Foster, '65, John T. Lec, '66.

WARD 6.
Alfred H. Chase, '66,
James Lawton,
John N. Peirce, Jr.,
Foster Nowell, '60, '61, resigned
May 14, '67.
Wm. Kittredge, elected Sept. 9,'67.

Mayor:

GEORGE F. RICHARDSON, ‡'62, ‡'63, *'64, †'67.

Aldermen:

Charles B. Coburn, '44, '51, *'56, *'67. Francis Jewett, '64, '65, John M. Pevey, resigned in July. Charles L. Hildreth, elected in Sept. Silas Tyler, Jr., '67.

Edward C. Rice, '65, '66, *'67, William E. Livingston, *'67, Frederic Frye, '62, '63, Albion J. Dudley, '62, '63, '64, *'66, * 67.

JOHN H. McAlvin, City Clerk.

Common Council:

WARD I. Calvin Sawtell, '67, John Shepard, '67, John F. Merrill, Frederic T. Greenhalge.

WARD 2.
Francis D. Munn,
Joseph A. Patten, '55,
Ruel J. Walker, '67,
Henry S. Orange, '61, '62, '63.

WARD 3.

WARD 3. George W. Badger, Samuel D. Prescott, '67, William Walker, Albert A. Haggett. WARD 4. William H. Anderson, John Q. A. Hubbard, '67, Charles T. Crane, John B. Hunt, '67.

WARD 5. Edwin Lamson, George S. Cheney, '67. William Kelley, Ethan N. Spencer.

Ethan N. Spencer.
WARD 6.
John N. Peirce, Jr., '67,
James Lawton, '67,
Francis Brown,
Alfred H. Chase, '66,'67, *President*.

GEORGE GARDNER, Clerk.

1869.

Mayor:

JONATHAN P. FOLSOM, '56, *'59, *'61, *'62, '67.

Aldermen:

Francis Jewett, '64, '65, *'68, Henry H. Wilder, '53, '54, *'60, *'65, Charles L. Hildreth, *'68, Cyrus H. Latham, '63, *'64, *'65. Hapgood Wright, '45, '46, *'56, John Q. A. Hubbard, '67, '68, George S. Cheney, '67, '68, Charles A. Stott, '59, '60.

JOHN H. McALVIN, City Clerk. Resigned March 15, 1869. SAMUEL A. McPHETRES, City Clerk. Elected March 15, 1869.

Common Council:

WARD I. Frederic T. Greenhalge, '68, John H. Durgin, Jr., Patrick Keyes, Benjamin Patch.

WARD 2. Joseph A. Patten, '55, '68, Phineas Jones, Francis D. Munn, '68, Amos Sanborn.

WARD 3. George W. Badger, '68, Albert A. Haggett, '68, William Walker, '68, George E. Pinkham. WARD 4.
William H. Anderson, '68, Pres.,
Simeon G. Lyford,
Henry P. Carter,
Epaphras A. Hill.

WARD 5. William Kelley, 68, Willard A. Brown, William O. Fiske, Edwin Lamson, '68.

WARD 6. Francis Brown, '68, Alpha B. Farr, '58, Lucian P. Stacy, '55, William Kittredge, '67.

Mayor:

JONATHAN P. FOLSOM, '56, * '59, * '61, * '62, '67, † '69.

Aldermen:

Edward F. Sherman, Frank F. Battles, Charles L. Hildreth, * '68, * '69. Amos B. French,

Hapgood Wright, '45, '46, *'56, *'69. John Q. A. Hubbard, '67, '68, *'69. Addison Putnam, '64. Charles A. Stott, '59, '60, *'69.

SAMUEL A. McPhetres, City Clerk.

Common Council:

WARD I. John H. Durgin, Jr., '69. Benjamin Patch, '69. Patrick Keyes, '69. Samuel G. Ladd.

WARD 2. Phineas Jones, '69. John L. Moulton, Patrick Cummiskey, David G. Skillings,

WARD 3. Albert A. Haggett, '68, '69, *President*. Henry P. Perkins, '60, '61. Hocum Hosford, '60, * '61, † '62, † '63, †'64, *'67, declined. Matthew Donovan,

John L. Meadowcroft, elected Jan. 24.

WARD 4. Epaphras A. Hill, '69. Henry P. Carter, '69. Simeon G. Lyford, '69. Michael Corbett. WARD 5.

William O. Fiske, '69. Willard A. Brown, '69. James D. Hartwell, Jeremiah Crowley.

WARD 6. Alpha B. Farr, '58, '69. William Kittredge, '67,"69. Lucian P. Stacy, '55, '69. John Stott.

GEORGE GARDNER, Clerk.

1871.

Mayor:

EDWARD F. SHERMAN, *'70.

Aldermen:

Frank F. Battles, *'70, William F. Salmon, '58, '59, ‡'60, John W. Smith, '49, '50, Amos B. French, *'70, Albert A. Haggett, '68, '69, 1'70, Henry C. Howe, '53, '54, Frederick Ayer, Addison Putnam, '64, * '70.

SAMUEL A. MCPHETRES, City Clerk.

Common Council:

WARD I. John H. Durgin, Jr., '69, '70, Samuel G. Ladd, '70, Francis N. J. Haviland, Joel Knapp.

WARD 2. William Dobbins, '67, John L. Moulton, '70, Patrick Cummiskey, '70, Amos A. Blanchard.

WARD 3. Henry P. Perkins, '60, '61, '70, *Pres.* John L. Meadowcroft, '70, Horace Ela, Julius C. Jockow.

WARD 4. Benj. Walker, '65, '66, Michael Corbett, '70, Francis H. Chandler, Charles T. Goddard.

WARD 5. Jeremiah Crowley, '70, Crawford Burnham, Henry C. Church, Patrick Lynch.

WARD 6. Leonard Brown, '53, '54, '58, '59, John Stott, '70, Abel T. Atherton, Nathaniel C. Sanborn.

Mayor:

JOSIAH G. PEABODY, *'50, '59, '60, †'65, †'66.

Aldermen:

Henry C. Howe, '53, '54, *'71, Alexander G. Cumnock, Benjamin Patch, '69, '70, Gustavus A. Gerry, '65, ‡ '66, ‡ '67,

Frederick T. North, '65, '66, '67, Benj. Walker, '65, '66, '71, William Kelley, '68, '69, Alpha B. Farr, '58, '69, '70.

SAMUEL A. McPHETRES, City Clerk.

Common Council:

WARD I. John E. Webb, '58, '59, Alonzo F. Caswell, Southwell Farrington, True P. Jordan.

WARD 2. Leonard Brown, '53, '54, '58, '59, '71, Amos A. Blanchard, '71, Joseph S. Brown, Earl A. Thissell.

WARD 3.
Henry P. Perkins, '60, '61, '70, ‡'71,
Harace Ela, '71, [Pres. Nathaniel C. Sanborn, Horace Ela, '71, Julius C. Jockow, '71, Charles F. Tilton.

WARD 4. Nathaniel P. Favor, Nathan W. Frye, Henry A. Lord, Alonzo L. Russell.

WARD 5. Crawford Burnham, '71, Charles F. Belden, Luther J. Eames, William Shepard.

WARD 6. Nathaniel C. Sanborn, '71, Samuel M. Chase, Julian Talbot.



ORDINANCES

(Now in force,)

PASSED SUBSEQUENT TO THE

ORDINANCES OF THE CITY OF LOWELL,

ORDAINED OCTOBER 28, 1863.



In the year Eighteen Hundred and Sixty-Six.

An Ordinance to Secure the Enforcement of Sanitary Regulations.

Be it Ordained by the City Council of the City of Lowell, as follows:

Section 1. A Board of Health shall be appointed annually in the month of January or February, or at any time when a vacancy may exist, consisting of the Mayor (ex-officio), two Aldermen, who shall be appointed by the Mayor, and three members of the Common Council, who shall be appointed by the President of that Board, with the powers and duties assigned to Boards of Health by the Statutes of the Commonwealth of Massachusetts.

Section 2. The Board of Health may make all regulations which they may deem necessary in regard to the removal and abatement of filth, rubbish, nuisances and causes of disease, and shall have power to require such aid from the City Marshal, Police force, and the Superintendent of Streets, as may be necessary to search out and cause the removal of such sources and causes of disease; to call upon the City Physician for advice or services in his professional capacity, or to appoint a physician to the Board; and to perform any other acts and duties which may to them seem necessary for the health of the City, provided, always, that such acts shall be in conformity to the Statutes of the Commonwealth, and the Ordinances of the City of Lowell.

In Common Council, March 13, 1866.

Passed to be ordained.

Gustavus A. Gerry, President.

In Board of Aldermen, March 13, 1866.

Passed to be ordained.

J. G. PEABODY, Mayor.

In the year Eighteen Hundred and Sixty-Seven.

An Ordinance Amending Chapter Twenty-Two of the Ordinances of the City of Lowell.

Be it Ordained by the City Council of the City of Lowell, as follows:

That Section Two of Chapter Twenty-Two of the Ordinances of the City of Lowell be amended by striking out in the first and second lines the words "shall appoint annually in the month of January or February," and inserting in place thereof the words "may appoint from time to time."

In Common Council, Sept. 24, 1867.

Passed to be ordained.

Gustavus A. Gerry, President.

In Board of Aldermen, Sept. 24, 1867.

Passed to be ordained.

George F. Richardson, Mayor.

In the year Eighteen Hundred and Sixty-Eight.

AN ORDINANCE AMENDING CHAPTER SIX OF THE ORDINANCES OF THE CITY OF LOWELL.

Be it Ordained by the City Council of the City of Lowell, as follows:

SECTION 1. That Chapter Six of the Ordinances of the City be and hereby is amended by inserting between the words "Council" and "during" in the seventeenth line of the second section, the words "and of the School Committee."

In Common Council, April 14, 1868.

Alfred H. Chase, President.

Passed to be ordained.

In Board of Aldermen, April 14, 1868.

George F. Richardson, Mayor.

Passed to be ordained.

In the year Eighteen Hundred and Sixty-Eight.

AN ORDINANCE AMENDING CHAPTER TWO OF THE ORDINANCES OF THE CITY OF LOWELL, AND REPEALING THE AMENDMENT TO SAID CHAPTER, ENTITLED, "AN ORDINANCE AMENDING CHAPTER TWO OF THE ORDINANCES OF THE CITY OF LOWELL."

Be it Ordained by the City Council of the City of Lowell, as follows:

Section 1. That Chapter Two of the Ordinances of the City of Lowell be amended by striking out the First Section of the Amendment to said chapter, entitled "An Ordinance Amending Chapter Two of the Ordinances of the City of Lowell," and substituting therefor the following words: "The fees for the services of said Superintendent and Undertakers at the funeral of any person to be buried within the City, of the age of twelve years, and over, shall be five dollars, and if under twelve years of age, four dollars and fifty cents, which fees shall be in full for digging the grave, attending with the funeral car at the funeral, conveying and burying the corpse, and obtaining and returning the facts required by Chapter Twenty-One of the General Statutes; when, however, the Proprietors of the Lowell Cemetery shall charge more than two dollars for digging a grave within the precincts of said Cemetery, then the fees of said Superintendent and Undertaker for services at the funeral of any person buried within said Cemetery shall be increased by the amount in excess of said sum of Two Dollars charged by said Proprietors, and for services at the funeral of any person buried in any other Cemetery or burial ground during the months of December, January, February and March, the ordinary fees of said Superintendent and Undertakers shall be increased by the sum of One Dollar; provided, however, that the fees for the burial of any pauper, if over twelve years of age, shall be three dollars, and if under that age, two dollars,

provided further that the said Superintendent and Undertakers shall collect the additional fees of twenty-five cents, for the use of the funeral car which may be used in the burial of any person within the city, and ten cents per mile for any distance that the same may be driven from and to the city. And it shall be the duty of the several Undertakers to pay over the said fees for the use of the funeral car to the Superintendent of Burials monthly, and the said Superintendent shall pay the same into the City Treasury before he shall be entitled to his salary."

In Common Council, June 9, 1868.

Alfred H. Chase, President.

Passed to be ordained.

In Board of Aldermen, June 9, 1868.

Passed to be ordained, George F. Richardson, Mayor.

In the year Eighteen Hundred and Sixty-Eight.

An Ordinance Amending the Ordinances of the City of Lowell.

Be it Ordained by the City Council of the City of Lowell, as follows:

Section 1. That Section Two of Chapter Twenty of the Ordinances of the City of Lowell be amended by striking out in the first, second and third lines, the words "there shall be appointed annually in the month of January or February, and whenever a vacancy occurs by the Mayor and Aldermen," and inserting in place thereof the words "the Mayor and Aldermen shall annually, in the month of January or February, and at such other times as they deem expedient, appoint."

In Common Council, June 9, 1868.

Passed to be ordained.

A. H. Chase, President.

In Board of Aldermen, June 9, 1868.

Passed to be ordained.

George F. Richardson, Mayor.

In the year Eighteen Hundred and Sixty-Eight.

An Ordinance Establishing the Office of Superintendent of Street Lamps.

Be it Ordained by the City Council of the City of Lowell, as follows:

Section 1. The Chief Engineer of the Fire Department shall be Superintendent of Street Lamps, and shall have the care and custody of all street lamps, lanterns, and lamp posts belonging to the city used for the purpose of lighting the streets. He shall keep the same in good condition, and lighted at such times as the Committee on Lighting Streets may direct. He shall also contract for all materials, superintend the putting up of all posts and lamp fixtures located by the Mayor and Aldermen; shall employ suitable persons to light the street lamps which are not lighted by the Police Department, and shall keep an accurate account of the number and kind of lamps in the city, the hours they burn, the amount of materials used for lighting, and cost of the same, and all other expenses incurred in this department; and in the month of January, annually, shall make a report to the Mayor and Aldermen of the number and kind of lights in the city, the increase, if any, during the year, and where located, the times when lighted, and also a synopsis of his doings through the preceding year.

Section 2. All Ordinances and parts of Ordinances inconsistent herewith are hereby repealed.

In Board of Aldermen, December 22, 1868.

Passed to be ordained.

GEORGE F. RICHARDSON, Mayor.

In Common Council, December 22, 1868.

Passed to be ordained.

ALFRED H. CHASE, President.

In the year Eighteen Hundred and Sixty-Nine.

An Ordinance Amending Section Seven of Chapter One of the Ordinances of the City of Lowell.

Be it Ordained by the City Council of the City of Lowell, as follows:

That Section Seven, of Chapter One, of the Ordinances of the City of Lowell be amended, by the addition of the following words: "said report to include a verification of the cash balance, as shown by said account, founded upon actual examination of all assets in the hands of the Treasurer."

In Common Council, April 27, 1869.

Passed to be ordained.

WILLIAM H. ANDERSON, President.

In Board of Aldermen, April 27, 1869.

JONATHAN P. FOLSOM, Mayor.

Passed to be ordained.

In the year Eighteen Hundred and Sixty-Nine.

An Ordinance Amending the Ordinances of the City of Lowell.

Be it Ordained by the City Council of the City of Lowell, as follows:

That Section Four, of Chapter One, of the Ordinances of the City of Lowell, be amended, by adding the following words: "And Provided, further, That when any suit is commenced in any Court in this Commonwealth in which the City of Lowell shall be a party, and in which it shall be necessary for the City Solicitor to pay money in advance to witnesses to attend said Court, such money may be so paid to the City Solicitor by the City Treasurer, upon the written order of the Mayor, countersigned by the Auditor, and approved by the Chairman of the Committee on Accounts."

In Common Council, May 11, 1869.
WILLIAM H. ANDERSON, President.

Passed to be ordained.

In Board of Aldermen, May 11, 1869.
Passed to be ordained.

JONATHAN P. FOLSOM, Mayor.

In the year Eighteen Hundred and Sixty-Nine.

An Ordinance Amending Chapter Seven of the Ordinances of the City of Lowell.

Be it Ordained by the City Council of the City of Lowell, as follows:

That Section Two, of Chapter Seven, of the Ordinances of the City be and hereby is amended by adding thereto the following words: "or who is trampling down or injuring the grass upon said Commons, nor shall any person engage in any games upon either of the Commons except within such limits as shall be specially designated for such purposes by the Mayor and Aldermen."

In Common Council, July 13, 1869.
WILLIAM H. ANDERSON, President.

Passed to be ordained.

In Board of Aldermen, July 13, 1869.

JONATHAN P. FOLSOM, Mayor.

Passed to be ordained.

In the year Eighteen Hundred and Sixty-Nine.

An Ordinance in Relation to Water Commissioners and Water Works.

Be it Ordained by the City Council of the City of Lowell, as follows:

Section 1. Whereas the City Council of the City of Lowell, on the twelfth day of October, A. D., 1869, decided that they would introduce water into the city from Beaver Brook, so called, in the town of Dracut, in accordance with the act of the Legislature, approved June 4, A. D., 1869, entitled "An act in addition to an 'Act for supplying the City of Lowell with water,'" it is ordained and determined that water, for the purpose aforesaid, shall be introduced from said Beaver Brook.

Section 2. For the purpose of carrying into effect the provisions of said act and for introducing a supply of water into said city, there shall be chosen, by the City Council, by concurrent vote, three Water Commissioners who shall be known and called by the name of "THE LOWELL WATER COMMISSIONERS." Said Commissioners shall hold their offices for three years from and after the time of their election, unless the water works contemplated by said act shall be sooner completed; and in that case, until the completion of said works. Provided, however, that the City Council, by concurrent vote of two-thirds of the members elected to either Board voting in the affirmative, may remove said Commissioners, or any of them, from office, for any misconduct, unfaithful performance of duty, neglect, or incapacity. In case of a vacancy in the Board of Commissioners by death, resignation or removal, such vacancy shall be filled by the appointment of another Commissioner, in the manner provided for in this section, who shall hold his said office for the residue of the said

term of three years, with all the powers and subject to all the restrictions provided in this Ordinance. Said Commissioners are authorized to select one of their number to act as Chairman or President of the Board. Two Commissioners shall be a quorum for the exercise of the powers and performance of the duties of said office.

Section 3. The Chairman or President of said Commissioners shall receive a salary of two thousand dollars per annum, and each of the other Commissioners a salary of one thousand dollars per annum, payable quarterly.

Section 4. Said Commissioners shall have authority to convey into and through said City the waters of said Beaver Brook in accordance with the provisions of said act, and shall have and exercise all the powers conferred on said City by said act, and may take by purchase, or otherwise, the waters of said brook and any water rights connected therewith, and any real estate necessary for laying aqueducts and forming reservoirs, and for any of the purposes of said act, and may also make contracts for labor and materials for the construction of said water works, which shall be valid and binding on said City, and which may be suitable and proper for facilitating, expediting and finishing the works in the most speedy, economical, advantageous, permanent and effectual manner.

Section 5. Whenever the Commissioners aforesaid shall take by purchase or otherwise any lands, streams of water, water rights or water sources for the purposes mentioned in said act, they shall, without unnecessary delay, make and deliver to the Mayor of the City of Lowell a certificate signed by them containing a statement of the fact of such taking, and a description of the lands or water sources so taken, as certain as is required in a common conveyance of lands, and a statement of the purposes for which they are so taken, to the end that the Mayor aforesaid may cause such description and statement signed by him to be filed in the office of the Registry of Deeds for the Northern District of Middlesex, as required by the second section of said act.

Section 6. All contracts for labor and materials in the prosecution of said work shall be in writing and executed in triplicate, one of which triplicate shall be kept by the Commissioners, one shall be delivered to the City Clerk, and one to the contractor, and no such contract shall be executed unless good and satisfactory security for the faithful performance of the same, and also to indemnify and save the City harmless from and against all claims against said City

under Chapter one hundred and fifty of the General Statutes by persons who may have done work or labor in the construction, erection and preparation of said works at the request of such contractor, shall be given by the contractor and approved by the Commissioners. Said Commissioners, when not otherwise authorized by the City Council, shall advertise in one or more newspapers in this City, and in such other cities and places as they may think best, for sealed proposals for all such contracts, specifying the time and place where the same shall be received; and such proposals in order to be received and acted upon shall set forth a specified sum or price to be paid for all such labor or materials, or for either, without condition, limitation or alteration, and shall be accompanied with a bond satisfactory to the Commissioners, conditioned for the faithful execution of the proposal if the same shall be accepted; and the contents of any proposal shall not be made known to any person not a member of the Commission until a contract shall have been made, provided, that said Commissioners may in their discretion reject any or all such proposals; and no contract shall be assigned without the written consent of said Commissioners. Nothing herein contained shall require said Commissioners to advertise for proposals for the ordinary extensions of street mains and water pipes, or repairs of the water works. Said Commissioners shall have power and authority to employ an engineer and such other agents, clerks and servants as they may deem necessary, and to agree with them for their compensation, which shall be paid out of the City Treasury.

Section 7. No one of said Commissioners and no person appointed to any office or employed by virtue of this ordinance, or by the aforesaid act of the Legislature, shall be interested directly or indirectly in any bargain, contract, sale, or agreement in relation to said water works, or any matter or thing connected therewith, wherein the City is interested, without an express vote of the City Council; and any and all contracts, bargains, sales, or agreements made in violation of this section shall be utterly void as to the City.

Section 8. It shall be the duty of the Commissioners aforesaid to exercise all reasonable vigilance and care by personal inspection, examination and supervision, from day to day, or from time to time, as circumstances may require, of all matters and things herein committed to their charge; to see that all works, matters and things to be done, executed and performed by and through their agency and under their superintendence, by virtue of the act aforesaid and of this ordinance, shall be done, executed and performed in a substan-

tial, economical and effectual manner; that all the officers, agents, and other persons who may be employed by them in the works aforesaid, execute and discharge the duties and labors assigned to them respectively, in a diligent and faithful manner; and that all contracts and agreements made and concluded by them in the execution of the duties of their office are faithfully and properly executed and performed.

Section 9. The Commissioners aforesaid shall enter or eause to be entered, in a book to be kept for that purpose, and which shall be subject to the inspection and examination of the Joint Standing Committee of the City Council on Water Works, or of any other committee appointed by the City Council for that purpose, a journal, account or record of all rules, orders, votes, appointments, resolutions, proceedings and other official acts which may from time to time be adopted by them; and the said Commissioners shall, at the beginning of each month during their continuance in office, make a report in writing to the said Joint Standing Committee of their proceedings during the month next preceding such report. And the said Joint Standing Committee shall, at the expiration of each period of three months, make a written report to the City Council upon the matters committed to them.

Section 10. In order to enable the City Council seasonably to raise and provide the funds necessary for defraying the costs and expenses which may from time to time be incurred in the prosecution of the work, and for earrying into full effect the purposes and objects of the act aforesaid, and of this ordinance, the Commissioners aforesaid shall from time to time seasonably make and prepare, with as much particularity as may be useful and practicable, estimates for the use of the said City Council, of such sums of money as, in their judgment, may be required; and statements of the purposes for which said sums respectively are to be appropriated and applied.

Section 11. It shall be the duty of the Commissioners aforesaid to investigate promptly all eases in which it appears probable that any damages may be elaimed of the City by any person or corporation for any alleged injury to the body or the property, real or personal, of such person or corporation by reason of any decision, action, or operation of said Commissioners, or of others employed by them in the performance of any of the matters and things committed to their charge by the act aforesaid, and this ordinance; and to make forthwith a memorandum in writing of all the important facts and circumstances relating thereto, together with a list of the names of

all persons whose testimony concerning the particulars of such alleged injury may be deemed important by said Commissioners, which memorandum they shall file and preserve.

Section 12. In all suits, processes, and questions in law or equity which may be commenced, prosecuted or pending by or against the City of Lowell in any court, or before any other tribunal, for or by reason of any act, proceeding or contract of the Commissioners aforesaid, or of the City of Lowell, or for any other cause arising from the execution of the powers and authority given by the provisions of the act aforesaid and of this ordinance, the said Commissioners shall aid and assist the counsel employed in behalf of the City, by giving information of all facts within their knowledge, and furnishing any documents, testimony and evidence in their possession or control, which may be material, important or useful in establishing the rights and protecting the interests of said City.

Section 13. All bills on account of said water works shall be examined by said Commissioners, and if found correct shall be so certified by them, and that the same have been incurred in the construction of the water works, and the Mayor shall draw his order therefor upon the Treasurer when the same shall have been audited and approved by the Joint Standing Committee of the City Council on Water Works, or of such committee as shall be appointed by the City Council to inspect and examine the proceedings and official acts of the said Commissioners, under the provisions of Section Nine.

Section 14. This ordinance and all its provisions shall be subject to such revision, alteration, amendment or repeal at the discretion of the City Council of the City of Lowell as shall not be inconsistent with the provisions of the act of the Legislature aforesaid.

In Common Council, November 23, 1869.

Passed to be ordained.

WILLIAM H. ANDERSON, President.

In Board of Aldermen, November 23, 1869.

Passed to be ordained.

JONATHAN P. FOLSOM, Mayor.

In the year Eighteen Hundred and Seventy.

AN ORDINANCE RELATING TO RATES OF FARE IN HACKNEY
COACHES OR OTHER CARRIAGES.

Be it Ordained by the City Council of the City of Lowell, as follows:

Section 1. The fares for the conveyance of passengers in licensed Hackney Coaches, or other carriages, shall not exceed the following rates, viz: For each passenger over twelve years of age, carried from any one place within the city to any other place within the city, thirty-five cents; except that if such passenger shall, at his own request, be taken into such coach or carriage after ten o'clock at night, and before five o'clock of the following morning, at any place within the city, and is carried with due speed and diligence to any other place within the city, a fare may be charged not exceeding fifty cents; for any such conveyance of a child under twelve years of age, the fare shall not exceed fifteen cents; and for children under three years of age accompanied by a parent or guardian, no fare shall be taken or charged. For the fares aforesaid each passenger may carry with himself baggage not exceeding seventy-five pounds in weight; and for each additional fifty pounds of baggage or fractional part thereof, five cents more may be charged.

Section 2. If any person shall ask for or charge a fare greater than, the rates named in the foregoing section for the conveyance of passengers, he shall be punished by a fine not exceeding Twenty Dollars for each offence.

Section 3. The Sixth Section of the Fourteenth Chapter of the Ordinances of the City, passed and ordained October 28, 1863, and the Ordinance passed and ordained April 25, 1865, are hereby repealed.

In Common Council, February 8, 1870.

Passed to be ordained. ALBERT A. HAGGETT, President.

In Board of Aldermen, February 8, 1870.

JONATHAN P. FOLSOM, Mayor.

Passed to be ordained.

In the year Eighteen Hundred and Seventy.

An Ordinance in addition to "An Ordinance in relation to Water Commissioners and Water Works."

Be it Ordained by the City Council of the City of Lowell, as follows:

Section 1. For the purpose of carrying into effect an act of the Legislature of the Commonwealth, entitled "An act to amend chapter 351 of the acts of the year 1869 for supplying the City of Lowell with water," it is hereby ordained and determined that water shall be taken from Merrimack River at a point in Dracut above Pawtucket Falls, and therefrom conveyed in a brick conduit to settling basins near the outlet of Beaver Brook in said Dracut, and thence into and through said city in such manner as the Lowell Water Commissioners shall deem most expedient, and by the construction of such works as may be necessary therefor.

Section 2. The Lowell Water Commissioners shall have authority to convey into and through said city, the waters of said Merrimack River as aforesaid, in accordance with the provisions of said act, and shall have and exercise all the powers conferred on said city by said act, and in the taking of the said waters as aforesaid, shall have all the powers, privileges, and duties, and be subject to all the liabilities and restrictions given and imposed on them by the ordinance passed by the City Council of said Lowell, November 23rd, A. D., 1869, entitled, "An ordinance in relation to Water Commissioners and Water Works," as fully as if herein specifically mentioned.

Section 3. So much of said ordinance passed November 23rd, A. D., 1869, as conflicts and is inconsistent with the provisions of this ordinance is hereby repealed.

In Common Council, July 26, 1870.

Passed to be ordained.

Albert A. Haggett, President.

In Board of Aldermen, July 26, 1870.

Passed to be ordained.

JONATHAN P. FOLSOM, Mayor.

In the year Eighteen Hundred and Seventy.

An Ordinance Amending "An Ordinance in addition to an Ordinance in relation to Water Commissioners and Water Works," passed July 26th, A. D., 1870.

Be it Ordained by the City Council of the City of Lowell, as follows:

Section 1. That Section One of the "Ordinance in addition to an Ordinance in relation to Water Commissioners and Water Works," passed July 26th, A. D., 1870, be amended by inserting after the words "Merrimack River," in said section, the words "and from Filter Galleries," and by striking out after the words "therefrom conveyed," in said section, the eighteen following words, to wit: "in a brick conduit to settling basins near the outlet of Beaver Brook in said Dracut, and thence," so that the section as amended shall read as follows:

"For the purpose of earrying into effect an act of the Legislature of the Commonwealth entitled 'An Act to amend chapter 351 of the acts of the year 1869 for supplying the City of Lowell with water,' it is hereby ordained and determined that water shall be taken from Merrimack River and from Filter Galleries, at a point in Dracut above Pawtucket Falls, and therefrom conveyed into and through said city in such manner as the Lowell Water Commissioners shall deem most expedient, and by the construction of such works as may be necessary therefor."

Section 2. That Section Two of said ordinance passed July 26th, A. D., 1870, be amended by inserting after the words "Merrimack River," in said section, the words "and of said Filter Galleries."

In Common Council, December 27, 1870.

Passed to be ordained.

ALBERT A. HAGGETT, President.

In Board of Aldermen, December 27, 1870.

Passed to be ordained.

JONATHAN P. FOLSOM, Mayor.

In the year Eighteen Hundred and Seventy.

AN ORDINANCE RELATING TO THE LOWELL HORSE RAILROAD COMPANY.

Be it Ordained by the City Council of the City of Lowell, as follows:

Section 1. The following regulations shall be observed by the Lowell Horse Railroad Company, their servants and agents:

First. Whenever snow shall fall of a sufficient depth to make sleighing, no snow plough shall be allowed to pass over the track of said Company or any part thereof; and the Company shall not at any time cause or allow snow or ice to be removed from their tracks or any part thereof without consent being first obtained of the Superintendent of Streets, or of the Chairman of the Committee on Streets.

Second. Said Company shall not sprinkle or place salt, brine or pickle, or any article of a decomposing nature, on any of their tracks or rails, or cause or allow the same to be done by their servants or agents without like consent.

SECTION 2. Said Company or any individual violating either of the foregoing Regulations, shall be punished by a fine of twenty dollars for each offence.

In Common Council, December 30, 1870.

Passed to be ordained.

Albert A. Haggett, President.

In Board of Aldermen, December 30, 1870.

Passed to be ordained.

JONATHAN P. FOLSOM, Mayor.

In the year Eighteen Hundred and Seventy-One.

An Ordinance relating to the Election of a Messenger to the City Council.

Be it Ordained by the City Council of the City of Lowell, as follows:

SECTION 1. There shall be chosen annually, by ballot, in the month of January, by concurrent vote of both branches of the City Council, a Messenger to the City Council, who shall enter upon his duties the first Monday in February, and he shall be removable at the pleasure of the City Council.

Section 2. All Ordinances and parts of Ordinances inconsistent herewith are hereby repealed.

In Common Council, January 10, 1871.

Passed to be ordained.

HENRY P. PERKINS, President.

In Board of Aldermen, January 10, 1871.

Passed to be ordained.

E. F. SHERMAN, Mayor.

In the year Eighteen Hundred and Seventy-One.

An Ordinance to Regulate the Posting of Placards, Notices and Bills.

Be it Ordained by the City Council of the City of Lowell, as follows:

Section 1. No person shall post up or affix in any manner, any placard, notice or bill, either written or printed, upon the fences or walls, or any part of any building in the City of Lowell, without the previous consent of the person or persons having possession of the same.

Section 2. No person shall post up or affix, in any manner, any placard, notice, or bill, either written or printed, upon any post, curbstone or sidewalk, or upon any tree in any street, square, park or public place in the City of Lowell, or upon any wall, fence, or building, belonging to the City of Lowell, without the consent of the Mayor.

Section 3. Any person who violates the provisions of this Ordinance shall forfeit and pay for every violation a sum not exceeding Twenty Dollars.

In Common Council, February 28, 1871.

Passed to be ordained.

HENRY P. PERKINS, President.

In Board of Aldermen, February 28, 1871.

Passed to be ordained.

E. F. SHERMAN, Mayor.

In the year Eighteen Hundred and Seventy-One.

AN ORDINANCE AMENDING CHAPTER TWENTY OF THE ORDINANCES OF THE CITY OF LOWELL.

Be it Ordained by the City Council of the City of Lowell, as follows:

That Section Two, of Chapter Twenty, of the Ordinances of the City, be and hereby is amended, by striking out in the twelfth line, the words "three or more Undertakers of Funerals," and inserting in the fourteenth line, after the word "annually," the words, "two or more Undertakers of Funerals, and"

In Board of Aldermen, March 14, 1871.

Passed to be ordained.

E. F. SHERMAN, Mayor.

In Common Council, March 14, 1871.

Passed to be ordained.

HENRY P. PERKINS, President.

In the year Eighteen Hundred and Seventy-One.

An Ordinance in Relation to Awnings, Shades and Signs.

. Be it Ordained by the City Council of the City of Lowell, as follows:

Section 1. No person shall place, establish, or maintain any awning or shade with stationary frame, before his or her place of business or dwelling-house, or over any part of any street or sidewalk, unless the same be safely made, fixed, supported and maintained so as in no wise to incommode passengers, and so that the lowest part of such awning or shade shall be at least nine feet above the sidewalk or street; and such stationary frame, if built over a sidewalk, shall extend over the outside edge thereof, and if supported at said outside edge, shall be so supported by iron supports or columns, and such awning or shade shall not be put on before the first day of April, nor kept on after the first day of December. And no person shall place, establish or maintain any awning or shade with movable frame, before his or her place of business or dwelling-house, or over any part of any street or sidewalk, unless the frame of the same be firmly secured to the building, and the lowest part of said awning or shade be at least seven feet above the sidewalk or street. And such awning or shade shall not extend more than six feet from the building, and shall be folded up every night at sunset and during every rain.

Section 2. No person shall erect, set up or keep upon or in front of any building, store, shop or place of business, or over any part of any street or sidewalk, any sign, signboard, or inscription, any part of which shall project or extend more than four and one-half feet from said building, store, shop, or place of business, into or over any public sidewalk, street or highway, unless the same is firmly attached to an awning. And no sign, signboard or inscription shall extend beyond the outside edge of the sidewalk; and, if the same projects more than three inches from the building, store, shop or

place of business, shall not be less than nine feet above the sidewalk, street or highway; provided, however, that this section shall not apply to signs or inscriptions painted on awnings or shades with movable frames, nor to signs erected or maintained by licensed innholders, as provided for in the eighty-eighth Chapter of the General Statutes of this Commonwealth.

Section 3. All awnings and shades shall be built, put up, and kept in repair, and all signs shall be put up and maintained, under the provisions of this ordinance, to the acceptance of the City Marshal.

Section 4. Sections ten and twenty-two of Chapter twenty-seven of the ordinances of the City are hereby repealed.

Section 5. Any person who shall offend against any of the provisions of this ordinance, shall forfeit and pay for each offence a sum not exceeding twenty dollars.

In Common Council, May 9, 1871.

Passed to be ordained.

HENRY P. PERKINS, President.

In Board of Aldermen, May 9, 1871.

Passed to be ordained.

E. F. SHERMAN, Mayor.

In the year Eighteen Hundred and Seventy-One.

An Ordinance to secure the Enforcement of Sanitary Regulations.

Be it Ordained by the City Council of the City of Lowell, as follows:

Section 1. A Board of Health shall be elected annually in the month of January or February or at any time when a vacancy shall occur, consisting of two Aldermen to be elected by that Board, and three members of the Common Council, to be elected by said Council, with all the powers and duties assigned to Boards of Health by the statutes of the Commonwealth of Massachusetts.

Section 2. The Board of Health may make all regulations which they may deem necessary in regard to the removal and abatement of filth, rubbish, nuisances and causes of disease, and shall have power to require the aid and assistance of such agents as may be needed to enforce such regulations; to appoint one or more physicians to the Board; and to perform any other acts and duties which may to them seem necessary for the health of the city, provided always that such acts shall be in conformity to the statutes of the Commonwealth, and the ordinances of the City of Lowell.

Section 3. The ordinance entitled "An Ordinance to secure the enforcement of Sanitary Regulations," passed on the thirteenth of March, eighteen hundred and sixty-six, is hereby repealed, and the Board of Health appointed under said ordinance shall cease to exist.

In Common Council, September 15, 1871.

Passed to be ordained. Henry P. Perkins, President.

In Board of Aldermen, September 15, 1871.

Passed to be ordained. E. F. Sherman, Mayor.

In the year Eighteen Hundred and Seventy-One.

An Ordinance Relating to the Duties of the City Physician.

Be it Ordained by the City Council of the City of Lowell, as follows:

Whenever the Board of Health shall appoint one or more physicians to said Board, the words "to render all the services by law incumbent upon physicians appointed by boards of health," in Section 7, of Chapter 11, of the Ordinances of the City of Lowell, shall not apply to small-pox.

In Common Council, September 26, 1871.

Passed to be ordained.

HENRY P. PERKINS, President.

In Board of Aldermen, September 26, 1871.

Passed to be ordained.

E. F. SHERMAN, Mayor.

In the year Eighteen Hundred and Seventy-Two.

AN ORDINANCE AMENDING CHAPTER FIFTH OF THE ORDINANCES OF THE CITY OF LOWELL.

Be it Ordained by the City Council of the City of Lowell, as follows:

That Chapter Fifth of the Ordinances of the City of Lowell be amended by striking out all of Section One, and inserting in place thereof the following:

"Section 1. The following City Documents shall be printed in pamphlet form of the size of the Annual Report of the School Committee, to wit: Mayor's Address, Auditor's Annual Report, Annual Report of the Directors of the City Library, Annual Report of the Superintendent of Burials, Annual Report of the Chief Engineer of the Fire Department, and Municipal Register."

In Common Council, January 23, 1872.

Passed to be ordained.

Henry P. Perkins, President.

In Board of Aldermen, January 23, 1872.

Passed to be ordained.

Josiah G. Peabody, Mayor.

In the year Eighteen Hundred and Seventy-Two.

An Ordinance to Amend an Ordinance Relating to Sanitary Regulations.

Be it Ordained by the City Council of the City of Lowell, as follows:

That an Ordinance passed by the City Council, September 15th, 1871, entitled "An Ordinance to Secure the Enforcement of Sanitary Regulations," be and the same is hereby amended by striking out from Section One the words, "two Aldermen 10 be elected by that Board," and substituting therefor "the Mayor, ex officio, and one Alderman; provided, however, that in case the Mayor declines to serve, there shall be chosen two Aldermen, to be elected by the Mayor and Aldermen."

In Common Council, January 23, 1872.

Passed to be ordained.

HENRY P. PERKINS, President.

In Board of Aldermen, January 23, 1872.

Passed to be ordained.

Josiah G. Peabody, Mayor.

In the year Eighteen Hundred and Seventy-Two.

AN ORDINANCE TO REPEAL AN ORDINANCE.

Be it Ordained by the City Council of the City of Lowell, as follows:

That an Ordinance passed by the City Council, September 26, 1871, entitled "An Ordinance relating to the Duties of the City Physician," be and the same is hereby repealed.

In Common Council, January 23, 1872.

Henry P. Perkins, President.

Passed to be ordained.

In Board of Aldermen, January 23, 1872.

Passed to be ordained.

Josiah G. Peabody, Mayor.

In the year Eighteen Hundred and Seventy-Two.

AN ORDINANCE AMENDING SECTION TWO OF CHAPTER TWENTY OF THE ORDINANCES OF THE CITY OF LOWELL.

Be it Ordained by the City Council of the City of Lowell, as follows:

That Section Two of Chapter Twenty of the Ordinances of the City of Lowell be amended, by striking out the words "a weigher of coal," and inserting in place thereof the words "one or more weighers of coal."

In Common Council, April 9, 1872.

Henry P. Perkins, President.

Passed to be ordained.

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In Board of Aldermen, April 9, 1872.

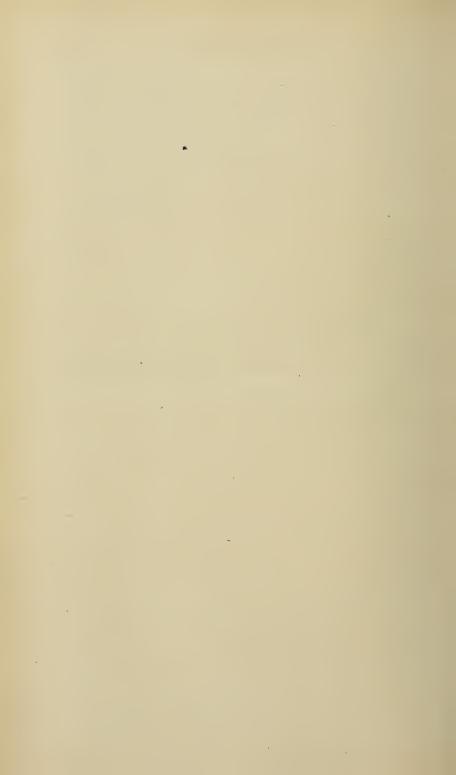
Passed to be ordained.

J. G. PEABODY, Mayor.

SPECIAL AND GENERAL LAWS RELATING TO THE CITY OF LOWELL,

PASSED OR ACCEPTED SINCE OCTOBER 28, 1863.

12



IN RELATION TO STATIONARY ENGINES.

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows:

Section 1. No stationary engine, propelled by steam or other motive-power, shall be hereafter erected or put up for use in any city or town within five hundred feet of any dwelling-house or public building, unless a license therefor shall have been first granted in the manner provided in chapter eighty-eight of the General Statutes, in respect to licenses of steam-engines, furnaces and boilers; and such license shall be applied for, granted and recorded in manner as therein provided.

SECTION 2. Any stationary engine hereafter erected, without such license, shall be deemed a common nuisance, and the Mayor and Aldermen, or selectmen, shall have like authority to remove the same, as is given to them by section forty of said chapter.

SECTION 3. This act shall not be in force in any city or town until it has been adopted at a legal meeting of the City Council of the city, or of the inhabitants of the town called for that purpose.

Section 4. This act shall take effect upon its passage. Approved March 20, 1862.

NOTE. The foregoing act was accepted for the City of Lowell, by a Resolution of the City Council, passed April 10, 1866.

In Addition to an Act for Supplying the City of Lowell with Pure Water.

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows:

Section 1. The commissioners authorized by the fifth section of the four hundred and thirty-fifth chapter of the acts of the year eighteen hundred and fifty-five, shall not exceed three in number, and shall hold their offices for three years, unless the work contemplated in said act shall be sooner completed. Said commissioners shall, during their continuance in office, execute, perform, superintend and direct the execution and performance of all works, matters and things mentioned in said act, and in all other acts that may be passed relative to the same subject, and they shall obey all ordinances, rules and regulations, in the execution of their said trust, as the City Council of Lowell may from time to time ordain and establish, not inconsistent with the provisions of said act, and shall once in six months, and whenever required by the City Council, make and present in writing, a particular report and statement of all their acts and proceedings, and of the condition and progress of the works aforesaid. A majority of said commissioners shall be a quorum for the exercise of the powers and the performance of the duties of the said office; they may be removed by a concurrent vote of two-thirds of each branch of the City Council, after having an opportunity to be heard in their defence; and a vacancy occasioned by death, resignation or removal, shall be filled in manner aforesaid, by the appointment of another commissioner, who shall hold his said office for the residue of the term of three years.

Section 2. This act shall take effect upon its passage. Approved April 30, 1866.

CONCERNING SHADE AND ORNAMENTAL TREES STANDING IN HIGHWAYS AND STREETS.

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows:

Section 1. No person who has by law a right to cut down or remove any ornamental or shade trees standing in any highway, town way or street, shall exercise such right without first giving notice of his intention to one of the selectmen of the town or mayor of the city in which the tree stands; and, if the selectmen of the town or mayor and aldermen of the city desire to retain the tree, they shall give notice thereof to such person within ten days after his notice to them; and in that case, the same course shall be taken and the same rules apply as to the assessment, appeal and final determination and payment of the damage such person may suffer by the retaining of said tree, as in the case of damage done by an alteration in such highway, town way or street.

Section 2. If any such person shall cut down, remove or injure such tree without first giving the notice required in the foregoing section, or in violation of any of the provisions thereof, or of the rights of the city or town acquired thereunder to maintain the same, he shall suffer the penalty provided for the injury or destroying of ornamental or shade trees in the seventh section of the forty-sixth chapter of the General Statutes, and the penalty in such case shall accrue to the town or city.

Section 3. This act shall not be in force in any town or city until it shall be accepted by a majority of the legal voters in such town at a meeting legally called therefor, or by the city council.

Section 4. This act shall take effect upon its passage. Approved May 16, 1867.

NOTE. The foregoing Act was accepted for the City of Lowell, by a Resolution of the City Council, passed May 28, 1867.

Concerning the Appointment of Police Officers in Cities.

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows:

Section 1. The mayor and aldermen of the several cities may at any time appoint police officers, with all or any of the powers of constables, except the power of serving and executing civil processes, who shall hold their offices during the pleasure of the mayor and aldermen.

Section 2. This act shall take effect upon its passage. Approved May 27, 1867.

AN ACT

To Amend an Act entitled an Act to establish a Fire Department in the Town of Lowell.

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows:

Section 1. The chief engineer and the assistant engineers of the fire department in the city of Lowell may be removed at any time by the mayor and aldermen.

Section 2. This act shall take effect upon its passage. Approved March 23, 1868.

In Addition to "An Act for Supplying the City of Lowell with Water."

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows:

Section 1. The city of Lowell is hereby authorized to take, hold and convey to, into and through the said city from Beaver Brook, so called, in the town of Dracut, Long Pond, in Dracut, and Tyng's Pond, in Dracut and Tyngsborough, and the waters which flow into and from the same, sufficient water for the use of said city and the inhabitants thereof, for the extinguishment of fires, creating steam, domestic and other purposes; and may also take and hold, by purchase or otherwise, any lands or real estate necessary for laying and maintaining aqueducts or pipes for conducting, discharging, disposing of and distributing water, constructing and maintaining reservoirs, dams, and such other works as may be deemed necessary or proper for raising, forcing, retaining, distributing, discharging or disposing of said water; and may take and hold any land on and around said ponds and Beaver Brook, for the purpose of raising water to such height as may be necessary for the purity and preservation of the same and for the purpose of furnishing a supply of pure water for the said city of Lowell.

Section 2. The city of Lowell shall, within sixty days from the time they shall take any lands, ponds or streams of water for the purposes of this act, file in the office of the registry of deeds for the northern district of Middlesex, a description of the lands, ponds, or streams of water so taken as certain as is required in a common conveyance of lands, and a statement of the purposes for which they were taken, which description and statement shall be signed by the mayor of said city.

Section 3. The said city may make, build, lay down and maintain aqueducts and pipes from any of said sources to, into, through

and about said city, and secure and maintain the same by any works suitable therefor; may connect said Tyng's Pond and Long Pond with each other; may erect and maintain dams to raise and retain the water taken; may construct and maintain reservoirs within or without said eity; and may make, ereet and maintain and earry on such other works as may be necessary or proper for raising the water into the same, and foreing and distributing the water through and about said city; may make and establish such public fountains and hydrants in such places as may from time to time be deemed proper, and prescribe the purposes for which the same may be used, and may change or discontinue the same; may distribute the water throughout the city, and for this purpose may lay down pipes to any house or building in said city, the owner or owners thereof having notice, and not objecting thereto; may regulate the use of said water, within and without the said city, and establish, receive and collect the prices or rents to be paid therefor; and the said city may, for the purposes aforesaid, carry and conduct and maintain any aqueduets, pipes or other works by them to be made, laid down or conducted over, under, through, or across any water-course, eanal, street, bridge, railroad, highway, or other way, in such a manner as not to obstruct the travel or free use thereof; may enter upon and dig up any such road, street or way for the purpose of laying down pipes beneath the surface thereof, and for maintaining and repairing the same, and in general may do any other acts and things necessary or convenient and proper for carrying out the purposes of this act.

Section 4. All pipes, aqueduets, and other works constructed or erected by said city, by virtue of this act, in, under or over any of the canals of "The proprietors of the Locks and Canals on Merrimack River," shall be so constructed, erected and laid, as, when completed, not to obstruct the navigation in said canals, or either of them, or to interrupt or impede the flow of the water in the same.

Section 5. The rights, powers and authorities given to the city of Lowell by this act, shall be exercised by the said city, subject to the restrictions, duties, and liabilities herein contained, in such manner and by such commissioners, officers, agents and servants as the city council shall from time to time ordain, appoint and direct.

Section 6. For the purpose of defraying the expenses which may be incurred by the city of Lowell in earrying into effect the powers granted by this act, the said city of Lowell shall have authority, from time to time, to borrow such sum or sums of money, and to issue notes, serip or certificates of debt therefor, as the city council

of Lowell shall from time to time deem expedient, bearing interest not exceeding the rate of six per cent. per annum; and the principal shall be made payable at periods not more than twenty years from the issuing of said notes, scrip, or certificates of debt, respectively; and the city council may sell the same or any part thereof, from time to time at public or private sale, or pledge the same for money borrowed for the purposes of this act, on such terms and conditions as the city council shall judge proper. And the city council of the said city is hereby authorized from time to time, to appropriate, grant and assess such sum or sums of money as shall be deemed expedient towards paying said expenses, or the principal of the money so borrowed or obtained, and the interest thereof, in the same manner as money is appropriated, granted and assessed for other city purposes.

Section 7. All persons and corporations who shall be damaged in their property by the taking of any lands or water, the building of reservoirs, aqueducts or water works, or the laying of pipes, or in any other way, in carrying into effect the powers hereby granted to the city of Lowell, unless the said city shall, within sixty days after request in writing made to the mayor of said city, pay or tender to the person or corporation so damaged a reasonable compensation therefor, shall have the same remedies as are provided in the forty-third chapter of the General Statutes for persons damaged by the laying out of highways.

Section 8. If any person shall use any of the said water, either within or without said city, without the consent of said city, an action of tort may be maintained by said city for the recovery of the damages sustained.

Section 9. If any person wantonly or maliciously shall divert the water from, or corrupt the water in, or destroy or injure any aqueduct, reservoir, pipe, conduit, hydrant, machine, or other works or property held, owned or used by the said city of Lowell, by the authority and for the purposes of this act, every such person or persons shall forfeit and pay to the said city three times the amount of damages that shall be assessed therefor, to be recovered by any proper action; and every such person or persons may, moreover, on indictment for, and conviction of, either of the wanton or malicions acts aforesaid, be punished by fine, not exceeding one thousand dollars, and imprisonment not exceeding one year.

Section 10. This act shall take effect upon its passage. Approved June 4, 1869.

In Addition to "An Act concerning Juvenile Offenders in the City of Lowell."

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows:

Whoever, being lawfully committed to the House of Employment and Reformation, under the provisions of chapter two hundred and forty-seven of the acts of eighteen hundred and forty-five, escapes therefrom, shall, upon conviction thereof before the court which originally committed, or before the police court of Lowell, be sentenced to be committed to said House of Employment and Reformation for a term not exceeding in length the term of the original sentence; provided, however, that this act shall not authorize the commitment of any person to said house, to extend beyond the period of his minority.

Approved June 9, 1869.

TO AMEND CHAPTER THREE HUNDRED AND FIFTY-ONE OF THE ACTS OF THE YEAR EIGHTEEN HUNDRED AND SIXTY-NINE, FOR SUPPLYING THE CITY OF LOWELL WITH WATER.

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows:

Section 1. The city of Lowell, for the purposes named in the first section of chapter three hundred and fifty-one of the acts of the year eighteen hundred and sixty-nine, is hereby authorized to take water from the Merrimack River, in the town of Dracut, or said Lowell, and also to take and hold, by purchase or otherwise, land in said Dracut or Lowell, for sinking wells or making excavations, in order to obtain water by filtration or percolation, or from subterranean streams, and for the construction of such works as may be necessary therefor, and for all other purposes for which said city might take or hold land under the provisions of said act, in case the water were taken from the sources in said act authorized.

Section 2. Nothing in this act shall authorize the construction of any work which, when completed, shall obstruct the flow of the water of said river, (not taken as herein authorized,) to or from any water mill now existing in said Lowell. And in the event that under authority of this act, water shall be taken from said river at any place above the dam of the proprietors of Locks and Canals on Merrimack River, nothing herein shall authorize the use of water so taken, as or for power for propelling or operating machinery, otherwise than as steam.

Section 3. In the execution of the authority hereby granted, all the proceedings, rights, powers and liabilities shall, except as herein otherwise provided, be the same, and all persons and corporations, who shall be damaged in their property thereby, shall have the same remedies provided in said act of the year eighteen hundred and sixty-nine, in case the water were taken from the sources in said act authorized.

Section 4. If any person wantonly or maliciously shall divert the water from, or corrupt the water in, or destroy or injure any aqueduct, reservoir, pipe, conduit, hydrant, machine, or other works and property held, owned, or used by the said city of Lowell, by the authority and for the purposes of this act, every such person or persons shall forfeit and pay to the said city three times the amount of damages that shall be assessed therefor, to be recovered by any proper action; and every such person or persons may, moreover, on indictment for, and conviction of, either of the wanton or malicious acts aforesaid, be punished by fine not exceeding one thousand dollars, and imprisonment not exceeding one year.

Section 5. This act shall take effect upon its passage. Approved June 3, 1870.

AN ACT

Concerning the laying out, altering, widening and improving the Streets of Boston.

[This Act being Chapter 174 of the "Acts and Resolves of 1866" will be found on page 123 of the "Blue Book" for that year. By Chapter 75 of the "Acts and Resolves of 1868," the foregoing was made applicable to any and all the cities of the Commonwealth, if "the same is accepted by the City Council of such city by a two-thirds vote of each branch thereof."]

Note. The Act of 1866 was accepted for the City of Lowell by a Resolution of the City Council, passed November 22, 1870.

AN ACT

RELATING TO CONTRACTS WITH THE OFFICERS OF CITIES.

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows:

Section 1. No member of the City Council of any city, or either branch thereof, or any officer chosen or appointed by the Mayor, City Council, or either branch thereof, or by the legal voters, shall be interested in a private capacity, either directly or indirectly, in any contract or agreement for labor, or for any materials, goods, wares or merchandise furnished to such city, wherein said city is a party interested; nor shall either directly or indirectly for himself or any other person, receive any commission, discount, bonus, present or reward from the person or persons making such contract or agreement, or furnishing such materials, goods, wares and merchandise.

Section 2. Whoever violates the provisions of this act shall be punished by a fine of not less than fifty dollars nor more than one thousand dollars, or by fine and imprisonment not exceeding one year, at the discretion of the court.

Approved April 29, 1872.

EXTRACT FROM CHAPTER 19,—GENERAL STATUTES.

Section 9. Ward officers authorized to act at elections, shall attend and perform their respective duties at the times and places appointed for elections of officers, whether of the United States, state, city or wards, and shall make and sign the regular returns of the same. If a ward officer is absent from a meeting, the office may be filled, *pro tempore*, by the voters present, by nomination and hand vote, if they so determine.

NOTE. The foregoing Section was adopted for the City of Lowell, by a Resolution of the City Council, passed April 23, 1872.



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FORTY-SIXTH

ANNUAL REPORT

OF THE

SCHOOL COMMITTEE

OF THE

CITY OF LOWELL,

TOGETHER WITH THE

EIGHTH ANNUAL REPORT

OF THE

SUPERINTENDENT OF PUBLIC SCHOOLS.

1871.



LOWELL, MASS: STONE & HUSE, BOOK AND JOB PRINTERS, 21 CENTRAL STREET, 1872.

CITY OF LOWELL.

IN SCHOOL COMMITTEE, December 30, 1871.

Hon. John A. Goodwin, Chairman of the Committee on Reports, having presented the subjoined Report this day, it was unanimously adopted as the Report of the School Committee for 1871.

The Superintendent having at the same time submitted his Annual Report, it was unanimously adopted.

It was voted that forty-five hundred copies of the above Reports be printed and distributed, under the direction of the Chairman of the Committee on Reports, and the Superintendent.

CHARLES MORRILL, Secretary.

REPORT.

The School Committee are required by law to make an annual report to their constituents, giving therein such facts and statistics as show the operations of the schools, and also presenting "such statements and suggestions as they deem necessary or proper to promote the interests thereof." The details of the schools for the year now closing, are embraced in the excellent and thorough report of the Superintendent, which the Committee, as usual, append as a portion of their own report, deeming this the most satisfactory way in which they can discharge the first part of the duty assigned them in this connection.

The office of Superintendent has become a permanent part of our school system. Originally tried as an experiment, it has been so well filled as to commend itself to general favor, and to lead to the conviction that so important and complicated a system as that of our public schools should have the benefit of an executive agent, acting under the orders of the Committee, and giving his whole time to the execution of the work with which they entrust him. The report of this officer is commended as worthy of careful perusal.

In complying with the second requirement as to their report, the Committee find much difficulty, unless they allow themselves to make considerable repetition from year to year. Educational institutions and organizations, common-schools as well as colleges, are usually quite conservative, and much inclined to move in ruts which in time come to be considered the only legitimate highway. Consequently, new ideas and suggestions are not often received at their first presentation, but must win attention by reiteration itself reiterated. The unjust judge granted justice to the widow, lest by her much coming she should weary him. The unprogressive portion of our public educators, faithful in intention, respectable in numbers and often venerable in years, do not surrender so easily, but wait until a new idea has totally worn out their powers of resistance, before they allow their wheels to be shifted from the heavy ruts of their childhood to the smooth McAdam of persistent reform Thus it is that the Committee find it necessary to repeat many things in their successive reports, for "line on line, and precept on precept," is eminently required in the direction of so extensive a system of schools as ours, and new ideas have to be presented many times, before they secure full adoption by teachers and parents.

We include parents with teachers, because home influence is a mighty power in the formation of youthful character. Costly schools and excellent teachers will fall far short of full success, if the parents and guardians of their pupils feel only indifference to their labors, and especially great will be the waste of power, when the home

influence is in opposition — when fault-finding, depreciation and disrespect towards the instructors and their labors, are habitually expressed at the fire-side.

It is to be presumed that teachers will be the first to accept new ideas as to the instruction and training of youth, but such ideas, however excellent, will fail to accomplish the greatest good if in opposition to the opinion of the world round about.

A stream will not rise higher than its source, nor will the average education of the youth of a community rise materially above the average of parental appreciation and desire. More especially is this true in this day and generation, when the government of youth is so weak at home, and by reflex influence, is greatly if not correspondingly relaxed in school. One is not necessarily venerable who can remember the time when the youth of both sexes were regarded as having few, if any, rights which their elders were bound to respect Their behavior in the street, the public gathering and the church, was deferential and subdued; in the family there was demanded from them a prompt, unquestioning obedience and an outward manifestation of respect, not only for parents, but for the stranger within their gates and the chance traveler in the highway; their pleasures and recreations, what they should eat or what they should drink or wherewithal they should be clothed, were considered subjects of slight importance, and the warmest desires and most ardent longings of the child were often regarded by his elders with supreme indifference. It may be rather undignified, but forcible, to say that Young America was made emphatically

to take the back seats. But this unreasonable disregard of the feelings and even comfort of the young, which prevailed so generally even a third of a century ago, has shared the fate of other oppressions. The question now is, whether family discipline does not err as widely as before, though in the opposite direction.

The great result is, that school discipline, formerly severe and merciless, now depends less on force than on moral influence. When the parent co-operates with the teacher, this influence is very powerful for good; it becomes uncertain with parental indifference, and struggles in vain for an existence against parental hostility. With the discipline of our schools depending so greatly upon the influences of the home-circle, the laws of our Commonwealth are wise in ordering School Committees annually to make "such statements and suggestions as they deem necessary or proper to promote the interests" of the schools, and to print their report "for the use of the inhabitants."

The school reports of our city, for several years past, have been very full and minute in their suggestions as to the necessity of school superintendence, the proper arrangement of school-houses, the grading of the schools, the courses of study, and the best methods of teaching the several branches, endeavoring by the discussion of such subjects to bring the teachers to harmony of thought and labor, but more especially to interest the parents in the daily work of the schools, leading them to appreciate the modern system of instruction and the many advantages the rising generation enjoys above its predecessors.

It is true that many of our citizens receive this annual literature with good-natured indifference, and many more, including some teachers, we regret to say, preserve our reports to be considered in that "more convenient season" which rarely comes, either for labor or repentance. But it is gratifying to know that a large and increasing proportion of our most intelligent citizens appreciate their connection with the work of public education, and give full attention to the communications of the Committee and the records of the teachers.

It will be seen by the well-prepared statistics of the Superintendent, that the schools during the year have suffered in attendance from the prevalence of the small-pox, many parents having chosen to consider the back alleys and by-ways of the city as safer places of resort than our neat, well-ventilated school-rooms. With the disappearance of the malady, the schools have regained their pupils, though the ill effects of the interruption will be felt for some months.

The Primary Schools are doing their work well. During the past year some additional rooms were found necessary, as is explained by the Superintendent's report, and they were provided with commendable liberality by the City Council. Further provision is desirable, which will doubtless be made the coming year in the same public-spirited manner. Whatever difference of opinion may exist as to Grammar School architecture, it is to be hoped that there will be no dissent from the doctrine that the Primary Schools should have cheerful and roomy accommodations, such as will cultivate neatness and taste in their little pupils, and promote good attendance by their attractiveness.

Public attention is again called to the fact that these are the most important schools in our series. When the child enters them, his mental habits are unformed. His mind has been likened to the blank page, upon which the teacher may inscribe whatever is desired. comparison, however, is wholly wrong. The blank page may be kept fair and white, and though neglected now, may be appropriately filled up in the future. But the child's mind will not wait until some one is ready to operate upon it. It will be active, and if neglected by teachers, will form random, vagrant habits for itself. It is like the sensitive sheet of the photographer, which, when exposed, may be made to reflect forms of symmetry and beauty, or of discord and deformity. It will not await the pleasure of the operator, nor if he makes a mistake, will it let him erase the work and begin again. Children's minds will at once begin to adopt ideas and develop lasting habits, either good or bad. If a child learns at the outset that there is no irreconcilable enmity between the school and the play-ground, and that school is in its way pleasant and interesting rather than restraining and exacting; if his first steps in learning are made so attractive that he desires to be taught more and commences to steadily feel the sacred thirst for knowledge; if he acquires habits of industry and method, and comes to notice, investigate and compare the things he sees about him, and if he is trained to despise what is low and mean, and to honor that which is fair and good - then has a foundation been laid fit for any superstructure that can be built. In the Grammar School and the High School, the child who has had this training, will show its good effects from one end of the course to the other, and will stand among his classmates like Saul among his brethren. The Grammar School, the High School and the College may prove poor and weak, but the well-trained youth from the Primary School will be superior to their defects and will derive from even the weakest institution, benefits altogether impossible for those who were started wrong. On the other hand, bad management in the elementary school will produce bad results for years, and often for life.

Such being the power of the Primary Schools over the whole course of education, they should receive the most liberal support and the most careful supervision of all our schools. For their management is required a peculiar order of teaching talent. The work is delicate and critical, demanding special ability. Many a teacher does well in the Grammar Schools, who is totally unfit for the charge of a Primary. Indeed, some of the older members of our Board favor the paying of higher salaries to the Primary teachers than to the assistants in the Grammar Schools. Is it not surpassingly strange that the idea has been quite prevalent in our community that almost any beginner or 'prentice hand, anybody's sister or cousin, or even teachers who had failed in the Grammar Schools, would do very well to take charge of a Primary School? Many cases can be recalled, too, where the change of successful Primary

[&]quot;Scratch the green rind of a sapling, or wantonly twist it in the soil,

The scarred and crooked oak will tell of thee for centuries to come.

Even so mayst thou guide the mind to good, or lead it to the marrings of evil,

For disposition is builded up by the fashioning of first impressions."

teachers to Grammar Schools has been urged on the ground of promotion! It is to be hoped that these schools will soon attain their proper place in the public estimation, that Primary teachers will feel that their transfer to any other grade is the reverse of promotion, and that vacant teacherships will be filled with the best talent attainable, leaving eleemosynary appointees to the higher grades if they must be had at all.

The Grammar Schools are doing their work with credit, and are giving, we trust, a better quality of instruction than ever before. They are, however, greatly reduced in value by the prevalent feeling that their chief object is to feed the High School. This evil, noticed in a former report, is quite marked at the present time. Some, but not all, the masters of these schools devote themselves for the first half of the year to the scholars who are to be examined at mid-summer for the High School. Other cares and duties are often slighted, and even with the class in question, general exercises and subjects not embraced in the examination, are elbowed aside. The great object seems to be considered the giving the pupils precisely the kind and amount of instruction that will take them through this examination; nor is this course very surprising after all, for there is a general disposition on the part of the public to judge each master by the number of successful candidates he has sent up.

This matter calls for a change. In the tendency of the times to lower the position of the Grammar Schools, it is apparently forgotten that what injures these schools, injures the High School in equal proportion. In view of the fact that less than one-tenth of the Grammar School scholars ever go to the High School, it will be more readily conceded that the Grammar Schools should be made seminaries of a higher order than at present. We trust that it may soon be found practicable to add an advanced class to each one of them. As it is now, the branches which are recognized as the Grammar School branches especially, are so imperfectly pursued that each one of them has to be finished up in the High School. Here is a great waste of time and expense so far as the High School scholars are concerned, but where does this operation leave the ninety per cent. of the scholars who never go to the High School to have their Grammar School studies finished up? These children with all their imperfections go out to take their places in life, victims to the public pressure upon the Grammar Schools to send up, and on the High School to receive, a large number of poorly prepared pupils every year.

With the advanced class we have suggested, the Grammar School branches proper, could be completed and reviewed, natural philosophy, physiology and algebra receive reasonable attention, while writing, book-keeping, composition and mechanical drawing would fill up the additional year. Then the graduates of the Grammar Schools would have some definite attainments and a fair preparation for many trades and callings. Then, too, scholars passing up to the High School would be prepared to receive the full benefit of its course, and would in turn give it more strength and character.

We have made some progress in the direction suggested, by establishing a Grammar School diploma for graduates. We leave it for our immediate successors to give character to this diploma, by requiring it to represent a degree of attainments now entirely unknown in this grade.

In these schools the study of language should be carried forward on a systematic and continuous plan. In every division of mental training, the vehicle of thought should be included. This should be the language as it is, not as it used to be, nor as we wish it might be. The student ought not to adopt a set of rules, and from these seek to establish the language, but, commencing at the other end, should study the language and from that deduce the rules. He should first become skillful in putting the language together! Taking it to pieces and parsing it, should be made a subsequent operation.

A man may attain great dexterity in pulling down buildings without becoming an architect, and may break up a dozen clipper ships without learning how to model a canal-boat. He may know how to rig and strip a vessel, to stow and discharge its cargo, to caulk and sheathe its sides, to draught a chart and work a lunar, and even to build a light-house on a sunken reef in the ocean, and still not be a seaman. Nothing but long, laborious experience on salt water will make him that. But we send a youth, alone, to navigate the great sea of the English language, with its diverging or conflicting currents, its occasional stretches of trade-winds interspersed with doldrums and cyclones, and its intermittent

land-breezes now sweeping along one foreign shore and now blowing off another but dying away before the opposite coast is reached, and we prepare him for his intricate navigation with just such training as is above described as impossible to make a sailor. Sound theory is valuable, but abundant practice is indispensable. With youthful minds, let the practice come first and lead up to the theory. We do not think the English language can be thoroughly taught in any other way.

The present system of teaching our grammar starts with the statement that its function is to teach the pupil to write and speak the language correctly. As it fails to accomplish this end, it stands self-convicted as a pretender. Even its expounders as well as its pet students, are often entirely lacking in clearness and force, those great essentials of composition, and compare most unfavorably with editors, reporters and other practical writers, who often are ignorant of the technical rules of the schools. The fault is not in English grammar, but in the unnatural way of teaching it.

For many centuries the British, Roman, Danish, Saxon and Norman elements of our tongue were slowly crystalizing into the English language. At length, several generations ago, a British author felt a noble ambition to give a system of grammar to this mosaic tongue. He seems to have had little special qualification for the task. Comparative philology had not then become a science, and no De Sacy had turned his attention to general grammar. Our author was, however, a good Latinist, and he aimed at reproducing the Latin grammar as closely as our

language would permit, if not rather more so. On his iron bedstead this linguistic Procrustes proceeded to place the elements of our vernacular, stretching out, cutting off and generally distorting until he made them to fit.

On this model have been arranged a vast number of grammar books, varying from little pamphlets up to that fearful work of twelve hundred pages, Gould Brown's "Grammar of English Grammars." Millions of children, in successive generations, with weeping and wailing, have spent upon them a lamentable amount of time and labor, and then have turned to other instruction to learn how to use the language with ease and propriety.

Of the absurd piling up of obstacles by many of these grammarians, a single example must suffice. We inherited from the Saxon, the adjective ane, meaning one. This word has become changed to one in some of its uses, and in others to an, the latter for euphony before a consonant, being shortened to a. Thus, a house, an house, and one house, all mean, with more or less definiteness, the same thing, being different forms of ane house, a, an and one, being practically the same adjective. What shall we think of a grammar-maker who strives to perplex the minds of children by teaching them that a or an is an "article," and that one is an "indefinite adjective pronoun?" Thus, in many cases is the simple made complex, the easy rendered difficult—and for what good?

A familiarity with Latin is of very great value for understanding the derivation and force of many of our English words. The grammar of the two languages, however, is quite dissimilar. Latin is a simple language, minutely and systematically inflected, with its sentences and clauses framed after rigid rules. The English, on the other hand, is composite, is without inflections, and allows the widest latitude in the structure of its sentences. A steamboat and a sailing ship do not move on more unlike principles. Let our present grammatical system of Latinized English, or Anglicized Latin, go by the board. A manual of twenty pages will give all that our pupils need of a text-book, constant practice, well criticised, doing the rest. May we soon see our educators, with united action, giving shape to the views which are coming to be generally entertained on this subject.

We had intended to make brief criticisms upon some of the school-books in use, and on others offered as substitutes for them, but the general defectiveness of the assortment, varying in kind rather than degree, seemed to require too much space. The poor quality and the high cost of our school-books leaves much to be desired. Still it is to be remembered that no text-books are to be blindly followed, much less committed to memory, but are to be made general helps only, and that in the hands of a really good teacher, that is, one who is zealous and who knows vastly more than the book can tell him upon the subjects he teaches, any of the books in common use can be made very good ones.

Educators everywhere cry out against the bondage of schools to their text-books, and this Board, in various, reports, has added its entreaty for a proclamation of emancipation. Some progress has been made, but it is very little. In our schools can be found teachers, including some of our oldest and some of our youngest, who teach from the depths of their own minds, throwing the whole of their personal magnetism into the operation. We have seen very animating exercises where the eye and hand were the members most used the ear less, and the tongue least. Such teachers pursue the same plan that foremen do in training apprentices, or business-men in instructing their assistants. They teach like Socrates in the Grove and Plato in the Academy—as Roger Ascham taught the classics without books, and as Agassiz teaches the pupils in his Museum.

This teaching is pretty rare, but it ought not to be. Why ideas should not be conveyed and thoughts drawn out, in the school-room, as they are in the daily business of life, is a conundrum too hard to guess. The interest shown in any exercise by the teacher will beget a corresponding interest in the class. If the teacher is confined to questions and answers from the pupil's text-book, and manifests no individual knowledge on the subject, the class may be safely trusted to attain a high rank for indifference and ignorance. Every teacher should regard emancipation from the bondage of text-books, as the foremost educational reform of the day.

A step in this direction, and a very important step it is, has been taken in geography by the introduction of map drawing into all the classes of our Grammar Schools. This exercise has been brought to a high state of excellence, and has become equally interesting and valuable. The topography of the world is to be learned thoroughly

only in this manner; then it may be lost to memory, but a score of years afterward if the pencil is set in motion, the outlines will be re-produced, the fingers being true to their early training.

Similar in kind but far greater in degree is the benefit of general drawing. This should form a part of the training of every school, and be held as essential as penmanship. Pictures formed the first written language, and now, while some ideas must be conveyed in words, others can only be clearly set forth by the aid of pictorial representations. Drawing is an eminently practical art, and in an education for the pursuits of life, should precede all the *isms* and *ologies*, whether they rank as essentials or as accomplishments.

This branch has been reduced to a system by our teacher of penmanship, and is slowly but steadily developing its value in all the classes of the Grammar and High Schools. In the Primary Schools, the teachers are giving it increased attention with good results. As but few of our teachers have been trained in this branch, the want is felt in these schools of some temporary supervision and instruction, to fully establish a uniform system.

The free drawing-class for adults, required by law, has not yet been opened, owing in a great measure to the small-pox, which during the autumn rendered it inexpedient to attempt to collect a class. One of the earliest duties of the new year will be the formation of this class. The experiment has been begun in most of the large towns of the state with highly satisfactory results.

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The High School for the past year, due allowance being made for the imperfect preparation of its entering class as previously commented upon, has performed its work in a manner worthy of its reputation. Its classical instruction has been above our criticism, while its mathematical training has exhibited the usual energy and exactness. The modern languages and English literature have been finely taught, and the dry bones of history have been made to live. The scientific course has continued to merit the praise bestowed upon it in recent reports, as is illustrated by the fact that it has led to the discovery, here, of several plants and minerals hitherto supposed by naturalists not to exist in this region.

The time seems near at hand when this school will require a department devoted, more especially, to the technicalities of industrial education. The general dying-out of the old-fashioned apprentice system, makes this want an increasing one. The Institute of Technology at Boston, the similar school at Worcester, the Rennsalaer Institute at Troy, and some lesser seminaries, have given technical education an impetus in which it is not to be supposed that Lowell, with her immense industrial interests, will be slow to join. But this is one of the movements of the day in which haste may make waste, and it is commended to the careful consideration of our successors.

This subject logically brings us to the consideration of the advanced education of young women. It is twenty-three hundred years since Agesilaus, King of Sparta, when asked what boys should be taught, replied:

"The things they will practice when they become men!" The world hasn't acted on this principle much, for until recently, our academies and colleges have endeavored to give their students a uniform education, and to turn out their minds exactly alike as the founder does his pile of cannon balls, in which he means that the callipers of the inspector shall find no variation.

The technical schools are bringing the education of young men to the doctrine of the king of Sparta, while Vassar College, Holyoke Seminary, and other excellent institutions are doing a like work for the other sex. But a class of reformers, as we learn them to be from their own announcement, are urging that the higher education for both sexes be not concurrent but co-incident. Under their influence, several young women have demanded admission to Harvard, Amherst, and other colleges, though we do not learn that any young men have asked that Vassar and Holyoke be opened to them, nor do we suppose that the demand, if made, would be complied with.

The advocates of the new policy do not recognize the fact that privileges may be equal or equivalent, and yet be distinct. But in proceeding to discuss the relation of the sexes in business affairs, they make an admission that seems fatal to their educational claims. They say, with perfect justice, that many positions in life are filled by able-bodied young men which ought to be reserved for young women — that employments requiring taste, delicacy, patience, or quickness, rather than strength or deliberate force, should be filled by the latter sex. This very sound proposition concedes all that we claim

on the educational question. If one sex is naturally adapted to certain classes of pursuits, and the other sex to quite different ones, the royal maxim above quoted, requires that the later stages of the educational training of the sexes, shall diverge according to this law of nature.

Not that proficiency in any science or study, is to be considered profitless for each individual of both sexes, but as the years of academic training are few, a selection of subjects must be made. It may be of exceeding value to the average young woman to be thorough in spherical trigonometry and the calculus, with skill in calculating eclipses, and to be a critical mistress of those dead languages that bring down to us the pagan teachings and obscene poetry of nations that, happily for the world, have long since ceased to defile its surface. It is, however, infinitely more desirable that she understand the science and practical workings of the world immediately around her—that she have a perfect familiarity with chemistry, the principles of which come constantly in play in the preparation of food, the care of clothing, the housewife's constant labors of renovating, purifying and preserving, and so many other processes of domestic life; that the principles of natural philosophy be equally ingrained, applicable as they are to heating, lighting, ventilating, and the myriad operations of household handicraft; that physiology and the laws of health control every movement in daily life; that drawing, with judgment of form and proportion, be as ready an art as penmanship and composition; that botany be so fully understood as to become a constant refreshment to the weary mind to the end of life; that the keeping of simple accounts be made a regular practice; and that history, physical geography and English literature, be so well mastered that conversation may have a substantial basis, the best current literature be appreciated and enjoyed, and the desire of children for information be pleasantly and profitably gratified.

Whatever pursuits prevent the mothers of the coming generation from receiving this education, are to be condemned like the tares among the wheat. Yet are tares good as a supplementary crop, and a breadth may well be devoted to them after a fair degree of culture has been given to the wheat. When we shall see a Lowell School of Technology, we trust to find in it a department devoted to the scientific preparation of young women for their great duty as the heads of families, adding, but not prefixing, as much additional culture as time may allow.

In bringing this report to a close, we wish to allude to the City Library. It would seem that this institution should be under the direction of the School Committee, and be more closely connected with the educational operations of the Board. We trust soon to see the library made entirely free, and its readers be counted by more thousands than they now are by hundreds. Good reading, without price, would well supplement our free schools.

It is to be hoped that books will, in all cases, be selected for the library with an eye to usefulness combined with attractiveness. Many of the tales of the day, convey

much geographical, historical and scientific information, or inculcate sound moral lessons. All such should be sought out and carefully selected. On the other hand, not a few are merely sensational and worthless, offering no justification for the expenditure of the city's money, nor for the temptation they offer readers to squander valuable time and form bad reading habits. Among books of merit, too, there is often room for choice. When we find the old editions of standard works abounding in coarseness, and later versions in no respect inferior, free from all prurient expressions, it is to be regretted that our public libraries should so uniformly select the former in preference to the latter. That De Foe's "Robinson Crusoe" should be given to children rather than the excellent version by Mrs. Farrar, or the old English rendering of the "Arabian Nights" instead of the unexceptionable Riverside edition, is only to be explained by the supposition that the selectors are not acquainted with the different books. If refinement is to be preferred to vulgarity, even when the first cost is greater, it certainly should be insisted upon in cases like the above, where the cash outlay it requires, is no more, if as much. Let our public libraries be freed from everything that, under whatever pretence, puts on the garb of coarseness or suggests thoughts of impurity, and be made to exert their highest influence in the education of the young people of our city.

In conclusion, we can say that the general condition of our schools is quite satisfactory, entitling them to the confidence and regard of our constituents. Our teachers, with few exceptions, are pains taking and anxious to be faithful. Many of them recognize their moral duty to avail themselves of means of improvement in their calling, by reading educational works, attending teachers' meetings and seeking advice from educators older than themselves. We believe this spirit is spreading.

An increasing number of applicants for our teacherships come from the State Normal Schools. The institutions at Salem and at Framingham are both easily accessible to scholars boarding here, and are of such high reputation that their free tuition should be esteemed one of the greatest educational boons a young woman can have, whether she becomes a teacher for a year or a life-time. We hope the time will soon come when it will be found practicable to require every candidate for a teachership, to bring a diploma from one of the Normal Schools.

It is not to be supposed that all our schools are free from serious defects, nor that any of them have reached their full measure of attainable usefulness. Educational science is progressive, and so long as the spirit of improvement is abroad in our schools, we are disposed to be content with the present and indulge greater hopes of their future.

We trust that the parents and guardians, upon whose unavoidable influence in education, we have said so much, will seriously ponder the subject, and will be conscientiously careful that this fearful power is ever exerted over our schools for the promotion of good government, the formation of industrious habits, the acquisition of sound

knowledge and the cultivation of the Christian virtues. As one of the corner stones of the Commonwealth, the public-school system is worthy of systematic liberality, of whole-hearted co-operation and of patriotic devotion.

ORGANIZATION

OF THE

SCHOOL COMMITTEE, 1871.

EDWARD F. SHERMAN, Chairman. JOHN A. GOODWIN, Vice-Chairman. CHARLES MORRILL, Secretary.

MEMBERS OF THE SCHOOL COMMITTEE.

EDW.	ARD F. SHERMAN, Mayor,	-	-	-	-	-	·	Ex-Of	ficiis
HENE	RY P. PERKINS, President	of (omn	on	Counc	il,	-) " " "	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Ward	1—GEORGE F. SCRIBNER	,	-	-	-	-	Term	${\bf expires}$	1871
	JAMES W. B. SHAW,	-	-	-	-	-	"	"	1872
44	2—JOSHUA MERRILL,	-	-	-	-	-	"	"	1871
	EZRA B. ALDRICH,		-	-	-	-	**	"	1872
"	3—WILLIAM H. LOUGHI	ΔIN,	-	-	-	-	"	"	1871
	JOHN F. FRYE,	-	-	-	<u>-</u>	-	"	"	1872
66	4—WILLIAM H. ANDERS	ON,	, -	-	-	-	"	"	1871
	ABRAM FRENCH, -	-	-	-	-	-	"	"	1872
"	5—SEWALL G. MACK,	-	-	-	-	<u>*-</u>	i.	"	1871
	PETER LAWSON, -	-	-	-	2	-	"	"	1872
"	6—JOSEPH H. SMITH,	-	-	-	-	-	"	"	1871
	JOHN A. GOODWIN,	-	-	-	_	7	"	"	1872

STANDING COMMITTEES.

- On Accounts-Messrs. Sherman, Perkins, French, Lawson and Scribner.
- ON SCHOOL-HOUSES-Messrs. Scribner, Merrill, Mack, Aldrich and Smith.
- ON TEACHERS-Messrs. Smith, Anderson, Goodwin, Frye and Merrill.
- ON REPORTS-Messrs. Goodwin, Perkins, Anderson, French and Frye.
- On Books-Messrs. Anderson, Goodwin, Frye, Aldrich, Loughlin and Shaw.
- ON SALARIES-Messrs. Mack, Sherman, French, Smith and Lawson.
- On Music-Messrs. Shaw, Scribner, Lawson, Mack and Loughlin.
- ON PENMANSHIP AND DRAWING—Messrs. Goodwin, Perkins, Merrill, Scribner and Frye.
- ON EVENING SCHOOLS-Messrs. Merrill, Mack, Smith, Loughlin and Scribner.

CHARLES MORRILL, Superintendent of Public Schools.

Office in City Government Rooms.

ORGANIZATION

OF THE

SCHOOL COMMITTEE, 1872.

JOSIAH G. PEABODY, Chairman. JOHN A. GOODWIN, Vice-Chairman. CHARLES MORRILL, Secretary.

MEMBERS OF THE SCHOOL COMMITTEE.

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JOSL	AH G	PEAB	ODY,	Mayor,	-	-	-	-	-	-	$\begin{cases} Ex-Of \end{cases}$	liciie
HEN	RY P.	PERK	INS, P	residen	t of C	omn	non	Coun	cil,	-	\ \(\(\(\int_{\text{a}} \) \(\cdot \)	100000
Ward	1—JA	MES V	V. В. S	HAW,	-	-	-	-	4-	Term	expires	1872
	FI	RED. T.	GREE	ENHAI	LGE,		~	-	-	44	"	1873
44	2-E	ZRA B.	ALDR	ICH,		-	-	-	_	4.6	"	1872
	JO	OSHUA	MERR	ILL,	-	-	*	-	4	4.6	44	1873
44	3—J0	OHN F.	FRYE	, -	-	-	-	-	-	44	44	1872
	W	ALTER	BUR	NHAM	, -	-	-	-	4	44	"	1873
44	4—A	BRAM I	FRENC	Н, -		-	-	-	-	44	4.	1872
	W	ILLIAN	I H. A	NDER	SON,	-,	-	-	-		"	1873
44	5—PI	ETER L	AWSO	N, -	-	-	-		-		"	1872
	C	YRUS F	c. RUS	SELL,	- '	-	-	-	-	44	"	1873
44	6—J0	OHN A.	GOOI	WIN,	-	-	-	-	-	"	"	1872
	B:	ENJAM	IN J.	WILLI	AMS.		_	-	-	6.6	• •	1873

STANDING COMMITTEES.

- On Accounts-Messrs. Peabody, Perkins, Lawson, French and Anderson.
- ON SCHOOL-HOUSES-Messrs. Peabody, Merrill, Lawson, Shaw and Burnham.
- ON TEACHERS-Messrs. Frye, Goodwin, Merrill, Greenhalge and Anderson.
- ON REPORTS-Messrs. Greenhalge, Goodwin, Williams, Russell and Burnham.
- On Books-Messrs. Anderson, Goodwin, Frye, Shaw, Aldrich and Williams.
- ON SALARIES-Messrs. Lawson, French, Peabody, Merrill and Williams.
- On Music-Messrs. Shaw, Perkins, Russell, Greenhalge and Aldrich.
- ON PENMANSHIP AND DRAWING-Messrs. Goodwin, Merrill, Perkins, Frye and Russell.
- ON EVENING Schools—Messrs. Merrill, Lawson, French, Aldrich and Frye.

CHARLES MORRILL, Superintendent of Public Schools. Office in City Government Rooms.

EIGHTH ANNUAL REPORT

OF THE

Superintendent of Public Schools.

1871.



SUPERINTENDENT'S REPORT.

TO THE SCHOOL COMMITTEE OF LOWELL:

In conformity with the rules, I respectfully submit the following report:

SUMMARY OF STATISTICS,

Value of real and personal property, \$27,8	11,353								
	40,928								
Number of polls,	9,186								
Number of children in the city between five and fifteen years of age,	1								
May 1, 1871, as returned by the Assessors,	6,217								
In Ward One, 451; Ward Two, 803; Ward Three, 1390; Ward Four,									
1495; Ward Five, 1388; Ward Six, 690.									
Decrease for the year,	220								
Number of public schools in the city,	61								
One High, eight Grammar and fifty-two Primaries.									
Increase for the year,	0								
Number of teachers employed in them,	115								
Increase for the year, - '	4								
In the High School, three male and five female teachers.									
In the Grammar Schools, eight male and forty-five female teachers.									
in the Grammar Schools, eight mate and forty-five female beachers.									
In the Primaries, fifty-two female teachers.									
In the Primaries, fifty-two female teachers.	g, and								
	g, and								
In the Primaries, fifty-two female teachers. In the High and Grammar Schools, one teacher of penmanship and drawin	g, and 4,686								
In the Primaries, fifty-two female teachers. In the High and Grammar Schools, one teacher of penmanship and drawin one teacher of vocal music.	.,								
In the Primaries, fifty-two female teachers. In the High and Grammar Schools, one teacher of penmanship and drawin one teacher of vocal music. Average number of scholars belonging to all the schools,	.,								
In the Primaries, fifty-two female teachers. In the High and Grammar Schools, one teacher of penmanship and drawin one teacher of vocal music. Average number of scholars belonging to all the schools, High, 275; Grammar, 2081; Primaries, 2330.	4,686								
In the Primaries, fifty-two female teachers. In the High and Grammar Schools, one teacher of penmanship and drawin one teacher of vocal music. Average number of scholars belonging to all the schools, High, 275; Grammar, 2081; Primaries, 2330. Decrease for the year,	4,686 424								
In the Primaries, fifty-two female teachers. In the High and Grammar Schools, one teacher of penmanship and drawin one teacher of vocal music. Average number of scholars belonging to all the schools, High, 275; Grammar, 2081; Primaries, 2330. Decrease for the year,	4,686 424								
In the Primaries, fifty-two female teachers. In the High and Grammar Schools, one teacher of penmanship and drawin one teacher of vocal music. Average number of scholars belonging to all the schools, High, 275; Grammar, 2081; Primaries, 2330. Decrease for the year,	4,686 424 4,207								
In the Primaries, fifty-two female teachers. In the High and Grammar Schools, one teacher of penmanship and drawin one teacher of vocal music. Average number of scholars belonging to all the schools, High, 275; Grammar, 2081; Primaries, 2330. Decrease for the year,	4,686 424 4,207 386								
In the Primaries, fifty-two female teachers. In the High and Grammar Schools, one teacher of penmanship and drawin one teacher of vocal music. Average number of scholars belonging to all the schools, High, 275; Grammar, 2081; Primaries, 2330. Decrease for the year,	4,686 424 4,207 386								

Number belonging,	Average cost of each scholar for tuition only, calculated on t	he aver	
The salaries of the teachers of penmanship and drawing, and vocal music, are divided between the High and Grammar Schools, 1-10 to High, 9-10 to Grammar. Amount standing to the credit of schools during the year, \$97,270,10 Expenditures, \$97,270,10 Expenditures,	number belonging,		- \$14.97
divided between the High and Grammar Schools, 1-10 to High, 9-10 to Grammar. Amount standing to the credit of schools during the year, 807,270,10 Expenditures,	High, \$32.53; Grammar, \$16.64; Primaries, \$10.12.		
Amount standing to the credit of schools during the year,			
Amount standing to the credit of schools during the year,		1-10 to	High, 9-10 to
Expenditures,			
Amount standing to the credit of school-houses, \$22,599.27 Expenditures, \$21,117.92 Balance undrawn, January 1, 1872, \$70,151.66 Increase for the year, 5,030.15 Bartlett School, (eight teachers), 5,200.00 Colburn " (six "), 5,200.00 Colburn " (six "), 5,032.12 Franklin " (five "), 5,032.12 Franklin " (five "), 5,032.12 Franklin " (five "), 3,575.00 Mann " (five "), 4,700.00 Varnum " (five "), 3,575.00 Increase for the year in the Grammar Schools, 2,897.70 For the Primaries (fifty-two teachers), 2,897.70 For the Primaries (fifty-two teachers), 2,897.70 For the teacher of penmanship and drawing, 1,485.00 For the teacher of vocal music,			
Amount standing to the credit of school-houses, \$22,599.27 Expenditures, 21,117.92 Balance undrawn, January 1, 1872, \$1,481.35 Amount paid for tuition during the year, \$70,151.66 Increase for the year, \$70,151.66 Increase for the year, \$3,684.61 For the High School (eight teachers), 8,947.00 Increase for the year, 517.29 For the Grammar Schools (fifty-three teachers), 34,630.15 Bartlett School, (eight teachers), 5,200.00 Colburn " (six "), 3,766.03 Edson " (eight "), 5,032.12 Franklin " (five "), 3,537.50 Green " (nine "), 3,517.50 Moody " (seven "), 3,612.50 Moody " (seven "), 3,512.50 Moody " (seven "), 23,589.51 Increase for the year in the Grammar Schools, 2,897.70 For the Primaries (fifty-two teachers), 23,589.51 Increase for the year, 23,589.51 Increase for the year, 23,589.51 Increase for the year, 24,485.00 For the teacher of penmanship and drawing, 1,485.00 For the teacher of vocal music,	Expenditures,		- 89,770.14
Amount standing to the credit of school-houses, \$22,599.27 Expenditures, 21,117.92 Balance undrawn, January 1, 1872, \$1,481.35 Amount paid for tuition during the year, \$70,151.66 Increase for the year, \$70,151.66 Increase for the year, \$3,684.61 For the High School (eight teachers), 8,947.00 Increase for the year, 517.29 For the Grammar Schools (fifty-three teachers), 34,630.15 Bartlett School, (eight teachers), 5,200.00 Colburn " (six "), 3,766.03 Edson " (eight "), 5,032.12 Franklin " (five "), 3,537.50 Green " (nine "), 3,517.50 Moody " (seven "), 3,612.50 Moody " (seven "), 3,512.50 Moody " (seven "), 23,589.51 Increase for the year in the Grammar Schools, 2,897.70 For the Primaries (fifty-two teachers), 23,589.51 Increase for the year, 23,589.51 Increase for the year, 23,589.51 Increase for the year, 24,485.00 For the teacher of penmanship and drawing, 1,485.00 For the teacher of vocal music,	D-1 I 1 1070		##7 400 OC
Expenditures,	Barance undrawn, January 1, 1872,		- \$1,499.90
Expenditures,			
Expenditures,	Amount standing to the credit of school-houses.		- \$22,599,27
Amount paid for tuition during the year, \$70,151.66 Increase for the year, 3,684.61 For the High School (eight teachers), 8,947.00 Increase for the year, 517.29 For the Grammar Schools (fifty-three teachers), 34,630.15 Bartlett School, (eight teachers), 3,766.03 Edson " (eight "), 3,766.03 Edson " (eight "), 3,537.50 Green " (nine "), 3,537.50 Green " (nine "), 3,527.50 Mann " (five "), 3,612.50 Moody " (seven "), 3,767.00 Varnum " (five "), 3,575.00 Increase for the year in the Grammar Schools, 2,897.70 For the Primaries (fifty-two teachers), 26.62 For the teacher of penmanship and drawing, 1,485.00 For the teacher of vocal music, 26.00 There has been received and paid over to the City Treasurer by the Superintendent, for tuition of non-resident children attending High School, 8400.00 Attending Grammar Schools,			
Amount paid for tuition during the year, \$70,151.66 Increase for the year, 3,684.61 For the High School (eight teachers), 8,947.00 Increase for the year, 517.29 For the Grammar Schools (fifty-three teachers), 34,630.15 Bartlett School, (eight teachers), 5,200.00 Colburn " (six "), 3,766.03 Edson " (eight "), 3,766.03 Edson " (eight "), 5,032.12 Franklin " (five "), 5,032.12 Franklin " (five "), 5,207.00 Mann " (five "), 3,517.50 Green " (nine "), 5,207.00 Varnum " (five "), 3,575.00 Increase for the year in the Grammar Schools, - 2,897.70 For the Primaries (fifty-two teachers), 23,589.51 Increase for the year, 263.62 For the teacher of penmanship and drawing, 1,485.00 For the teacher of vocal music, 1,500.00 There has been received and paid over to the City Treasurer by the Superintendent, for tuition of non-resident children attending High School,	*		
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Increase for the year, 3,684.61 For the High School (eight teachers), 8,947.00 Increase for the year, 517.29 For the Grammar Schools (fifty-three teachers), 34,630.15 Bartlett School, (eight teachers), 5,200.00 Colburn " (six "), 3,766.03 Edson " (eight "), 3,632.12 Franklin " (five "), 5,032.12 Franklin " (five "), 5,207.00 Mann " (five "), 5,207.00 Mann " (five "), 3,512.50 Moody " (seven "), 3,612.50 Moody " (seven "), 2,897.70 Increase for the year in the Grammar Schools, 2,897.70 For the Primaries (fifty-two teachers), 23,589.51 Increase for the year, 263.62 For the teacher of penmanship and drawing, 1,485.00 For the teacher of vocal music,			Self-man substruction recommends
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Colburn " (six "), 3,766.03 Edson " (eight "), 5,032.12 Franklin " (five "), 3,537.50 Green " (nine "), 5,207.00 Mann " (five "), 3,612.50 Moody " (seven "), 4,700.00 Varnum " (five "), 3,575.00 Increase for the year in the Grammar Schools, 2,897.70 For the Primaries (fifty-two teachers), 23,589.51 Increase for the year, 23,589.51 Increase for the year, 23.662 For the teacher of penmanship and drawing, 1,485.00 For the teacher of vocal music, 1,500.00 There has been received and paid over to the City Treasurer by the Superintendent, for tuition of non-resident children attending High School, 8460.00 Attending Grammar Schools, 8460.00 Attending Primary Schools,			
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Green " (nine "), 5,207.00 Mann " (five "), 5,207.00 Moody " (seven "), 3,612.50 Moody " (seven "), 4,700.00 Varnum " (five "), 3,575.00 Increase for the year in the Grammar Schools, 2,897.70 For the Primaries (fifty-two teachers), 23,589.51 Increase for the year, 263.62 For the teacher of penmanship and drawing, 1,485.00 For the teacher of vocal music, 1,500.00 There has been received and paid over to the City Treasurer by the Superintendent, for tuition of non-resident children attending High School, \$460.00 Attending Grammar Schools, \$460.00 Attending Primary Schools, \$931.00 For singing-books, drawing-books, &c., and for books furnished children of indigent parents, (at cost), \$1,183.27 Received by the City Treasurer from the Commonwealth, city's pro-	Edison (digital),		,
Mann " (five "), 3,612.50 Moody " (seven "), 4,700.00 Varnum " (five "), 3,575.00 Increase for the year in the Grammar Schools, 2,897.70 For the Primaries (fifty-two teachers), 23,589.51 Increase for the year, 23,589.51 Increase for the year, 263.62 For the teacher of penmanship and drawing, 1,485.00 For the teacher of vocal music, 1,500.00 There has been received and paid over to the City Treasurer by the Superintendent, for tuition of non-resident children attending High School, \$460.00 Attending Grammar Schools, 480.00 Attending Primary Schools,	Frankin (nve),		,
Moody " (seven "), 4,700.00 Varnum " (five "), 3,575.00 Increase for the year in the Grammar Schools, 2,897.70 For the Primaries (fifty-two teachers), 23,589.51 Increase for the year, 263.62 For the teacher of penmanship and drawing, 1,485.00 For the teacher of vocal music, 1,500.00 There has been received and paid over to the City Treasurer by the Superintendent, for tuition of non-resident children attending High School, \$4,700.00 Attending Grammar Schools, \$4,800.00 Attending Primary Schools,	Green (mine),		,
Varnum " (five "), 3,575.00 Increase for the year in the Grammar Schools, 2,897.70 For the Primaries (fifty-two teachers), 23,589.51 Increase for the year,	mann (nve),		,
Increase for the year in the Grammar Schools, 2,897.70 For the Primaries (fifty-two teachers), 23,589.51 Increase for the year, 263.62 For the teacher of penmanship and drawing, 1,485.00 For the teacher of vocal music, 1,500.00 There has been received and paid over to the City Treasurer by the Superintendent, for tuition of non-resident children attending High School, 4840.00 Attending Grammar Schools, 48.00 Total	Moony (seven),		,
For the Primaries (fifty-two teachers), 23,589.51 Increase for the year, 263.62 For the teacher of penmanship and drawing, 1,485.00 For the teacher of vocal music, 1,500.00 There has been received and paid over to the City Treasurer by the Superintendent, for tuition of non-resident children attending High School, 423.00 Attending Grammar Schools, 48.00 Total	, turidin (1170),		,
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For the teacher of penmanship and drawing, 1,485.00 For the teacher of vocal music, 1,500.00 There has been received and paid over to the City Treasurer by the Superintendent, for tuition of non-resident children attending High School, 48460.00 Attending Grammar Schools, 48.00 Total	, -		,
For the teacher of vocal music, 1,500.00 There has been received and paid over to the City Treasurer by the Superintendent, for tuition of non-resident children attending High School, \$460.00 Attending Grammar Schools, 48.00 Attending Primary Schools,			
There has been received and paid over to the City Treasurer by the Superintendent, for tuition of non-resident children attending High School, \$460.00 Attending Grammar Schools, 423.00 Attending Primary Schools, 48.00 Total \$931.00 For singing-books, drawing-books, &c., and for books furnished children of indigent parents, (at cost), \$1,183.27 Received by the City Treasurer from the Commonwealth, city's pro-			
Superintendent, for tuition of non-resident children attending High School,	For the teacher of vocal music,		- 1,500.00
Superintendent, for tuition of non-resident children attending High School,			
High School, \$460.00 Attending Grammar Schools, 423.00 Attending Primary Schools, 48.00 Total \$931.00 For singing-books, drawing-books, &c., and for books furnished children of indigent parents, (at cost), \$1,183.27 Received by the City Treasurer from the Commonwealth, city's pro-	There has been received and paid over to the City Treasu	rer by	the
Attending Grammar Schools, 423.00 Attending Primary Schools, 48.00 Total \$931.00 For singing-books, drawing-books, &c., and for books furnished children of indigent parents, (at cost), \$1,183.27 Received by the City Treasurer from the Commonwealth, city's pro-	Superintendent, for tuition of non-resident children	attend	ing
Attending Primary Schools, 48.00 Total \$931.00 For singing-books, drawing-books, &c., and for books furnished children of indigent parents, (at cost), \$1,183.27 Received by the City Treasurer from the Commonwealth, city's pro-			- \$460.00
Total \$931.00 For singing-books, drawing-books, &c., and for books furnished children of indigent parents, (at cost), \$1,183.27 Received by the City Treasurer from the Commonwealth, city's pro-		•	- 423.00
For singing-books, drawing-books, &c., and for books furnished children of indigent parents, (at cost), \$1,183.27 Received by the City Treasurer from the Commonwealth, city's pro-	Attending Primary Schools,	-	- 48.00
For singing-books, drawing-books, &c., and for books furnished children of indigent parents, (at cost), \$1,183.27 Received by the City Treasurer from the Commonwealth, city's pro-			
dren of indigent parents, (at cost), \$1,183.27 Received by the City Treasurer from the Commonwealth, city's pro-	Total,		- \$931.00
dren of indigent parents, (at cost), \$1,183.27 Received by the City Treasurer from the Commonwealth, city's pro-			
dren of indigent parents, (at cost), \$1,183.27 Received by the City Treasurer from the Commonwealth, city's pro-			
Received by the City Treasurer from the Commonwealth, city's pro-		nished c	
	dren of indigent parents, (at cost),	•	- \$1,183.27
	Provinced by the City Thursday C		
portion of the School Fund, \$1,823.64	neceived by the City Treasurer from the Commonwealth,	city's p	
	portion of the School Fund,	•	- \$1,823.64

The amount of money expended for schools and school-houses, under the direction of the Superintendent of Public Buildings, not including the raising of Primary No. 4, on Chapel Street, and building the new school-houses on Ames and Central Streets, is \$1,880.38											
As follows:											
High Scho	ool, -	-	1	4	_	_	_	_	-		\$ 77.45
Bartlett S	chool.	, -	-	-	-	-	-	-	-	\$ 57.34	
Colburn	"	L.	-	-	-	-	-	-	-	81.93	
Edson	"	-	-	-	-	-	-	-	-	73.88	
Franklin	66	-	-	-	-	-	-	-	-	117.54	
Green	66	new,	_	-	-	-	-	-	-	41.34	
Mann	"	-	-	-	-	-	-	-	-	238.83	
Moody	"	-	-	-	- "	-	-	-	-	86.82	
Varnúm	"	-	-	-	-	-	-	-	-	180.16	
									_		
Tot	al for	Gramr	nar S	Schoo	ols,	-	-	_	-		877.84
Forty Prin	naries	3, -	-	-	- '	-	-	-	-		874.12
Old Green	Scho	ol-hous	se, or	ı Mid	ldle St	treet	, acco	mmo	dati	ng Prim-	
aries 1 a	nd 29	, and t	he F	ree E	enin	g So	chool,	, -	•		50.94
The principal	charg	es agair	ist t	his la	st bui	lding	gare	\$30,	on a	account o	of the burst-
ing of st	team-	pipes,	and	\$15.5	on on	acce	ount	of se	tting	g sixty-tv	wo lights of
glass.											
The expenditu	res fo	or raisii	ng F	rima	ry No	4,	on C	hape	l Stı	eet, and	
finishing	g off a	a new s	choc	l-roo	m bel	ow,	are	-	-		\$2,834.90
For land for so	ehool	purpose	es, A	mes :	Street	,	-	2	- 8	\$2,184.20	
For building to	vo•sto	ory scho	ool-h	ouse	there	on f	or Pi	imar	ies		
27 and 4	2,	-	-	-	-	-	•	-	-	5,536.55	
											7,720.75
For land for se	hool p	ourpose	s, C	entra	l Stre	et,	-	-	-	1,085.00	
For building two-story school-house thereon for Primaries											

The amount charged to the several schools this year by the Superintendent of Public Buildings is much less than the average for five years preceding; indeed it is only four hundred and twenty-five dollars (\$425) more than was expended on the Edson School-house alone in 1869. This is owing to the extensive and thorough repairs that were made during the three preceding years. It will be understood that these charges are for repairs on and about the buildings and furniture, and for articles furnished for the use of pupils, janitors, and teachers, and are not identical with

18 and 54,

Received for old building, -

4,525.52

5,610,52

300.00

the expenditures charged to schools and school-houses found in the Auditor's Report, though they are included in them. The largest item charged to any one school is "shingling Primary School-house, No. 48, on Coburn Street, ninety-three dollars (\$93)," which is about one-ninth of its valuation.

The next largest item is "shingling Primary Schoolhouse, No. 28, on Grand Street, eighty-seven dollars fifty cents (\$87.50)," which is a little more than one-eighth of its valuation, and if to it I add fifty dollars (\$50) for painting, the sum will be more than one-fifth of its valuation. The charges against six of the Primaries are less than five dollars each, and those against nine others, less than ten dollars each. The details of the charges against the schools would not be interesting to the Committee, but I take the liberty to transcribe those of the month of March against one of the Grammar Schools as a sample:

March	3, 1 floor mat,		•	-	-	-	-	•	4	\$2.22
"	3, 10 ink wells, at	7 cts., -	-	-	-	-	-	-	-	70
"	10, 1 long handled:	floor-brus	sh, -	-	-	-	-	-	-	90
"	10, setting two ligh	ts of glas	s, -	-	-	-	-	-	-	50
66	13, 1 floor-brush,		-	-	-	-	-	-	-	90
"	16, taking off outsi	de windo	w, -	-	-	-	-	-	-	2.50
66	22, 2 keys, -		-	-	-	-	-	-	-	34
"	23, 1 water pail,		-	-	-	-	-	-		25
66	25, repairing school	l-desks,	-	-	-		-	-		1.50
66	25, setting one ligh	t of glass	, -	-	-	-	-	-	-	25

Against the same school one charge in July, two in August, one in September, three in October, two in November, and one in December.

During the year, two new primary school-houses have been built, and one raised and a room added, at a total expense of fifteen thousand eight hundred sixty-six dollars and seventeen cents (\$15,866.17).

The new buildings are of wood, two stories high, fortysix feet long and thirty-two feet wide. There are four entrances, two in front from a piazza, and one on each side. The entries are large and commodious, with a closet on each floor, and the school-rooms are spacious, light, and easily ventilated. They are thirty-two feet long, thirty-one feet four inches wide, and twelve feet two inches high, having six large windows and two ventilators.

Patent elevators are attached to the upper sashes of the windows.

The rooms are warmed by the largest size coal stoves.

The number of seats in each room is fifty-four, arranged in six rows from front to rear and so as to allow ample space on all sides for classes to stand or to pass each other. The teacher's desk is between the door-ways, and is eight feet four inches from the nearest seat. Blackboard surface ex-

tends around the room.

These buildings and the one raised are in Ward Three, and are a response to the call of the Committee for more accommodations for school-children in that Ward.

Attention is invited to the accommodations for Primaries 9 and 51 over the Ward Room on Church Street, and for Primaries 5, 6, 15 and 30, on the corner of Middlesex and Elliott Streets. It was the opinion of one, at least, of the Committee on Public Instruction, that if the members of the City Council should visit the different rooms in those buildings, they would recommend the School Board to ask for suitable accommodations for the schools occupying them.

At the first meeting of the Board in 1868 an order was passed asking the City Council to provide suitable accommodations for No. 8, on Worthen Street. In 1870, nearly twelve thousand feet of land on Worthen Street were purchased, to which to move the building occupied by the school. The street, however, was so narrow that the building could not be moved without cutting it into two parts, and it was thought

advisable to recommend the building of a new house. In August a resolution was unanimously adopted by the Board that immediate steps should be taken to erect a house on the land purchased for that purpose. There the matter has stood for sixteen months.

Primaries 1 and 29 still occupy the lower front rooms in the old Green School-house on Middle Street. The location is bad, and other accommodations should be provided for them.

In May a petition was received from Bickford Lang and others living in the south-westerly part of the city, asking that a new building for Primary and Grammar School purposes be erected on land owned by the city near Primary 31 on Powell Street. This petition was referred to a special committee, which in due time reported in favor of the petitioners. The report was accepted and its recommendations adopted, and the usual notice was sent to the City Council, which referred the subject to the appropriate committee.

That committee, ascertaining that the appropriation for school-houses was nearly exhausted, suggested the propriety of the sale of the old Green School-house to obtain funds. The Board refused to listen to the suggestion, and the matter has been referred to the next City Council. It is proper to add that at the last meeting of the Board in September, the Committee on School-houses was instructed to build a school-house on Powell Street, as prayed for by the petitioners. For reasons known to the Committee no steps were taken towards its erection.

The school-houses are all now in the charge of janitors, who are responsible for the care of the premises, including sweeping, washing, building fires and whatever may be necessary to cleanliness and comfort.

I again commend to the consideration of the Committee the yards of the Moody, Colburn, Bartlett, and Edson schoolhouses.

EXAMINATION OF TEACHERS.

The usual examination of applicants for schools took place in February.

About thirty young ladies presented themselves for examination, several of whom had been examined and granted certificates at some prior public examination of the School Committee, and had served in the schools as elected or temporary teachers. These were dismissed without examination, with the assurance that certificates would be granted them by the Board. Their names are—

Gertude Sheldon, Mira Hubbard, Belle T. Vinal, Georgiana F. Vinton, Emily A. Howe, Alice L. Frye, Arvilla L. Reader, Clara C. Scribner, Ella J. Hale, Ellen A. Chase, Ella S. Stanwood, Helen C. Frye, Lizzie N. Smith, M. Jennie Geer.

The names of those examined are—

Martha A. Paul, Susie J. Perkins, Lucy J. Freeman, Ruth B. Bailey, Maria T. Wells, Cornelia Davis, Mary W. Mitchell, Fanny M. Clark, Minnie Goodnow, Anna E. Emery, Lilla J. Greenhalge,
Mary J. Howe,
Julia Leighton,
Alice Swinerton,
Amanda Crane,
Ada M. Frost,
M. P. White,
Cornelia M. Davis,
Ella Gardnér,
Lucy J. Garrett.

Of these, six were non-residents; of the fourteen residents, two were under eighteen years of age; one had had

six years' experience; one, four; one, three months, and the others, none or next to none. Thirteen were graduates of our High School; three, of Salem Normal School; two are now attending the school, and three attended from four months to a year. Of the thirty-four candidates only five have been elected to situations in the schools, and only one of the five is a graduate of a Normal School.

Notwithstanding the apparently unfavorable results of the examination, the Committee have, on the whole, been singularly fortunate. There have been no more vacancies than could be easily filled, and some of those who have occupied situations temporarily, have shown unusual tact and skill both in teaching and governing. In no case has it been necessary to employ any but approved candidates.

On examination of the list, however, I find that after deducting the non-residents, elected teachers, those filling vacancies which they will probably be elected to fill, those teaching out of the city, and those unavailable for other reasons, there are not more than two or three that could be relied upon in an emergency. A similar state of things has existed for several years, and it is easy to see that the various sub-committees are liable during the time that will elapse before another examination, to experience much embarrassment. Last year a partial remedy was found in the resolution of the Committee authorizing sub-committees under certain circumstances to employ any persons whom they might believe competent to teach.

I suggest that if the Superintendent of Schools were empowered to examine for situations as teachers those who from inability to be present at the examination in February, should present themselves at any other time during the year, the list might be kept full. The results of such examinations, held by direction of the Committee on Teachers, would be presented to the Board for final action.

CHANGES IN THE SCHOOLS.

RESIGNED.

Mary F. Dana,	Assistant,	Edson School.
Mrs. F. O. Dodge,	"	Green "
Florence E. Davis,	No. 1,	Primary "
Abbie L. Davis,	" 6,	"
Clara J. Nichols,	" 13,	"
Isabella E. Horner,	" 19,	"
M. Ella Wilkins,	" 20,	"
Laura E. Hale,	" 30,	"
Clara L. Gates,	" 41,	" "

TRANSFERRED.

Mrs. F. O. Dodge, from Colburn to Green School. Annie E. Richardson, from Primary No. 22 to Green School.

ELECTED.

Perley Balch,	Principal,	Colburn	School.
Helen C. Frye,	Assistant,	Edson	"
Arvilla L. Reader,	"	Colburn	"
Ruth B. Bailey,	"	Green	"
Ida Sheldon,	"	"	"
Lizzie N. Smith,	No. 19,	Primary	"
Susie J. Perkins,	" 20,	"	"
Jennie F. Woodward	l, " 29,	"	"
Abby R. Worthley,	" 30,	"	"

EMPLOYMENT OF CHILDREN IN THE MILLS.

The chief difficulties encountered this year in endeavors to secure the observance of the laws concerning the employment of children in the mills arose, first, from the prevalence of the small-pox; and, secondly, from the employment of children under fifteen years of age, upon their own or their parents' representations that they were over that age. Many children, twelve, thirteen and fourteen years old are at work

in the mills upon the strength of their false statements as to age, and there they will continue to work to the prejudice of honest labor, if they happen to have been born out of Lowell. We can furnish no proof of age, except in case of native born children. The remedy is in the hands of employers. If they should refuse to receive without certificates only those who are unmistakably of the proper age, and require from those of doubtful age the testimony of the teacher of the school that the child last attended, in addition to that of the parents, the evil would be greatly abated. the present system continues, it will furnish strong inducement for honest people to follow a dishonest example, rather than suffer from the wrong done them by complying with the law. It would also justify the making of such labor unprofitable by harassing prosecutions, based upon what is believed to be true.

ATTENDANCE.

The attendance this year, as we might expect, has been very bad, though the returns will give the same per cent. of attendance as last year. This per cent. is based upon the number belonging, and by the rule a child absent just one week is neither counted as absent nor belonging. Rules for membership must necessarily be arbitrary. It is impossible for a teacher always to know when a scholar has actually left school not to return. Indeed, it is not easy in some cases for the scholar to know it.

In St. Louis a rule has lately been adopted by which "in all cases of absence of pupils from school, the pupil's name is kept just three days, unless transferred, even in case of permanent removal or death of the pupil, and whether the causes of the pupil's absence are known or unknown." In many places what is called the Chicago rule is adopted. Upon the rule, therefore, depends the per cent. of attendance.

But the actual attendance may be very bad, while appearing good.

During the year there has been a decrease from last year in the number belonging of four hundred and five (405), and in the attendance a decrease of three hundred and fifty-eight (358). This falling off was occasioned by the prevalence of the small-pox. During the first week of the fall term there were nine hundred and forty-two (942), less children in school than during the corresponding week last year. In less than four weeks there was a falling off of nine hundred and sixty-one more, and the number attending the schools was only three thousand thirty-three (3033) being a fraction less than sixty per cent. of the average number belonging last year. All this time the Truant Commissioner was obliged to suspend his labors, except in cases where the parents asked his assistance. Consequently, there was considerable truancy which could not well be prevented. His duties, however, have been quite as arduous as in any former year.

The following is his report:

Number of cases inves	tigat	ed,							546
Truants,									211
Absentees, .									296
Culprits,								,	39
Truants arrested,									28
Carried before court,									23
Sentenced, .									18
Bailed and returned to									5
Picked up on the stree	et and	d sen	t to	school	١,				39

The attendance is rapidly increasing, and the schools are beginning to resume their former cheerful appearance.

PRIMARY SCHOOLS.

The number of Primary Schools is the same as last year, fifty-two.

Most of these were much disturbed by the prevalence of small-pox, but none were suspended except No. 48, and that only one week for lack of scholars. In general terms I may say of them all that, considering the disturbances during the year, they are in remarkably good condition. No. 48, in Centralville, ought to have a better location. Belvidere, No. 35 occupies a room in the Moody School which will soon be wanted for Grammar School purposes. No. 52 now occupies the Ward Room on Fayette Street, and should have better accommodations. No. 33, in the Colburn School-house, driven from its pleasant room, occupied the Ward Room on Church Street, during the summer term, and was transferred in September to the room before occupied by No. 27, which with No. 42, was transferred from the Colburn School-house to the new house built for them on Ames Street. No. 18 occupies the upper room of the new building on Central Street, and No. 4 the same room as formerly, which is now the second story of the building. At the close of the term ending May 13th, the number of scholars attending the Primary Schools, on Church, Lawrence, Central and Chapel Streets, was very large, averaging fifty-seven scholars to a teacher.

Primaries 42 and 21, containing only the fifth and sixth classes, had an average of sixty-eight.

It was supposed at that time that the new rooms on Central and Chapel Streets would be needed at the opening of the fall term, but owing to the small-pox they have not been needed. The prospect is, however, that they will be needed in the spring.

Five vacancies have occurred since the first of July, which have been filled by temporary teachers to the entire acceptance of their several sub-committees and myself. The course of study prepared and adopted in May is fol-

lowed by all the teachers as closely as circumstances will permit, and a year of quiet will see great progress made in all our Primary Schools.

GRAMMAR SCHOOLS.

At the commencement of the spring term, Mrs. Dodge, principal of the Colburn School, was transferred to the Green School as assistant, and Perley Balch, former principal of the Edson School, was placed in charge, and a new department opened under the charge of Mrs. Arvilla L. Reader. Mr. Balch was elected principal of the school at the regular meeting of the Board in February, and Mrs. Reader was elected assistant in March.

These changes added to the expense of the school over last year one thousand and one dollars and fifteen cents. The number of scholars belonging, December 30th, 1871, is two hundred and twenty. The other assistants of the school are the same as last year.

The Green School took possession of its new quarters on Merrimack Street, January 23rd. Eight of the ten rooms are occupied. The principal was allowed an assistant in his own room, and two other assistants were afterwards elected, making the whole corps consist of nine teachers. The number of scholars present at the close of the term in November was three hundred and three.

In the Edson School, Miss Helen C. Frye was elected in September assistant, in the place of Miss Mary F. Dana, resigned. No other changes have taken place in the Grammar Schools. The average attendance during the week ending September 30th was eleven hundred and forty-eight (1148). This was in the height of the small-pox excitement.

In order to check the mischievous ambition of parents and teachers to send scholars to the High School, and to reward all deserving scholars, "Diplomas of Graduation will hereafter be awarded to those pupils of the graduating class of each Grammar School, who have, in the opinion of the sub-committee and master, properly completed the prescribed course of study, and whose deportment during the year has been generally satisfactory." I hope that this rule will have a fair trial. I believe that if the teachers and parents co-operate for that purpose, all the schools will be better, the number of applicants for the High School will not be less, they will be more evenly and consequently better prepared, and there will be greater interest taken in the schools.

RESULTS OF THE EXAMINATION OF CANDIDATES FOR ADMISSION TO THE HIGH SCHOOL, IN JULY.

[Doufoot wonly in writing	r 10. in other studies 20	Perfect rank in all the studies, 130.1
Treffect tank in writing	r. 10: in other stholes, 20,	Periect rank in all the studies, 130.1

schools.	No. Examined.	No. Admitted.	Average age of all examined.	Av. in Spelling.	Av. in Reading.	Av. in Writing.	Av. in History.	Av. in Geography.	Av. in Grammar.	Av. in Arithmetic.	General Average.
Bartlett	29	24	Y. M. 15-4	14.43	16.55	9.73	15.22	15.67	11.55	10.04	93.19
Colburn	13	8	14	13.46	16.77	9.80	15.02	12.67	11.64	7.61	86.97
Edson	26	26	14-11	14.88	17.44	9.83	16.71	15.08	13.93	11.56	99.43
Franklin	15	11	15-7	14.97	16.40	9.56	14.81	15.33	13.80	9.10	93.97
Green	27	18	15-4	15.00	17.67	9.60	13.79	12.17	11.77	8.23	88.23
Mann	7	7	15-3	16.79	14.71	9.90	16.79	15.18	12.69	9.94	96.00
Moody	27	21	13-10	14.13	16.15	9.51	14.44	14.46	12.38	11.08	92.15
Varnum	22	18	15-2	14.50	15.95	9.72	14.92	14.27	11.37	9.76	90.49
Gen. average of all examined				14.62	16.64	9.69	15.06	14.33	12.25	9.79	92.49

Standard of admission: All having an aggregate of 90 were admitted; all fourteen years of age and under fifteen, 88; fifteen, 86.

According to the table, the schools rank in the several studies as follows:

	SPELL.	READ.	WRIT.	HIST.	GEO.	GRAM.	ARITH.	TOTAL.
1	Mann,	Green,	Mann,	Mann,	Bartlett,	Edson,	Edson,	Edson,
2	Green,	Edson,	Edson,	Edson,	Franklin,	Franklin,	Moody,	Mann,
3	Franklin,	Colburn,	Colburn,	Bartlett,	Mann,	Mann,	Bartlett,	Franklin,
4	Edson,	Bartlett,	Bartlett,	Colburn,	Edson,	Moody,	Mann,	Bartlett,
5	Varnum,	Franklın,	Varnum,	Varnum,	Moody,	Green,	Varnum,	Moody,
6	Bartlett,	Moody,	Green,	Franklin,	Varnum,	Colburn,	Franklin,	Varnum,
7	Moody,	Varnum,	Franklin,	Moody,	Colburn,	Bartlett,	Green,	Green,
8	Colburn.	Mann.	Moody.	Green.	Green.	Varnum.	Colburn.	Colburn.

HIGH SCHOOL.

This school has had a very prosperous year. No changes have taken place in the corps of teachers, and the attendance of the scholars has been good.

The smallest attendance for any week was two hundred sixty-six. The amount of labor done by the teachers has been unusually large this year from the frequency of written examinations, and the additional work of bringing forward those scholars admitted in the fourth week of the term. Nearly every teacher has been obliged to spend an hour or two every day after school in extra labor on this account.

If scholars are admitted upon conditions, and there is a manifest propriety in doing it, I think it should be at the time of the general examination in July, and from an inspection of the examination papers rather than from an inspection of the tabular results. They should be told in what they were deficient, and in very many cases scholars who ranked

quite low in one or two branches, would in a few weeks qualify themselves not only to enter the High School, but also to acquit themselves creditably in their classes.

In July the school was subjected to a double examination, first by written questions, and, secondly, by the customary oral examination, open to the public. In the afternoon there were the usual "graduating exercises" in Huntington Hall.

Diplomas were presented by Dr. E. B. Aldrich to the following, who had pursued a four or a three years' course of study as designated.

COURSE OF FOUR YEARS.

Ida Dennison Abbott,
Annie Josephine Blanchard,
Sarah Adelaide Coburn,
Ella Sarah Collins,
Ida Edwyna Crooker,
Addie Augusta Godfrey,
Edith Almira Gove,
Jennie Maria Greenhalge,
Ella Sabrina Hodgdon,
Annie Caroline Howe,
Mary Jean Keese,
Mary Frances Maynard,
Arvilla Brown Shepard,
Sarah Elizabeth Stevenson,
Imogene Florence Thomas,

Adelaide Ward,
Frances Maria Webster,
Hannah Proctor Wright,
Alpheus Brown Alger,
George Willard Brown,
Edwin Alonzo Colby,
Charles Horace Cooke,
Charles William Cushing,
Willis Gilbert Eaton,
Arthur Clark Folsom,
James Ward Gilman,
Louis Henry Kileski,
Frank Reader Rix,
John Samuel Searle.

COURSE OF THREE YEARS.

Stella Josephine Allen,
Carrie Eliza Bacheller,
Cora Vinette Barnard,
Fannie Blanchard,
Clementine Howe Bowers,
Thursa Alice Butler,
Alice Maria Healey,
May Clarendon Hyde,
Lucy Ardena Johnson,
Mary Helen McArthur,
Helen Jessamine Morrill,
Emma Frances Mort,
Clara Augusta Rice,
Mercy Ella Russell,

Lillian Elizabeth Shattuck,
Louie Avena Hooke,
Ellen Annette Stillings,
Ella Maria Thurston,
Emma Madora Winnek,
Mattie Punchard Worcester,
Abbie Lizzie Wright,
Peter Powers Bradt,
Edward Clarence Brickett,
John Jeremiah McCarty,
George William Poore,
Cyrus William Russell,
Charles Francis Sherman,
Fred Warren Stickney.

The Carney Medals were presented by William H. Anderson, Esq., to—

William R. Harlow, Ralph F. Brazer, Samuel T. Barnes, Stella J. Allen, Helen D. Ham, Ellen A. Stillings.

EVENING SCHOOLS.

Evening schools were opened Monday evening, November 13th, in the Free Chapel, and in the old Green Schoolhouse. The attendance at each place has been quite large. The various classes are under the direction of lady teachers who are not employed in the day schools. The expense will be much less than last year.

It is hoped that their usefulness will be as great.

The following report of the Committee on Evening Schools, for 1870-71, was submitted to the Board in June.

REPORT.

Green School-house, Middle Street—Perley Balch, Principal, and sixteen Assistants.

Number of names registered,	-	-	-	-	-	-	-	-	583
Males,	-	-	-	-	-	-	-	-	425
Females,	-	-	-	-	-	-	-	-	158
Average attendance,	-	-	-	-	-	-	-	-	196
Males,	-	-	-	-	-	-	~	-	127
Females,	-	-	-	-	-	-	~	-	69
Length of term, fifty-five evening	igs, (5	5).							
Expense for the term,	-	-	-	-	-	-	-	-	\$1220.19
" per evening,	-	-	-	-	-	-	-	-	22.18
" per term, for a scholar	, -	-	-	-	-	-	-	-	6.225
" per evening, for a scho	lar,	-	-	-	-	-	-	-	.113
Items of expense:—									
Pay-roll,	-	-	-	-	-	-	-	-	\$998.00
Heating, (estimated), -	-	-	-	-	-	-	-	-	60.00
Lighting,	-	-	-	-	-	-	-	-	59.12
20-100 of cost of books and	slates	furn	ished	, -	-	-	-	-	38.81
Amount carried forward,	-	-	-	-	-	-	-	-	\$1,155.93

Amour	nt brought	foru	vard,	-	-	-	-	-	-	-	-	\$1,155.93
Janitor,		-	-	-	-	-	-	-	-	-	-	18.33
Police,		-	-	-	-	-	-	-	-	-	-	18.00
Miscellar	eous.	-	-	_	_	_	-	_	-	_	_	-27.93
	,											
	Total,	-	-	-	_	-	-	_	-	-	-	\$1,220.19
	Í											
Free Cha	nal Wide	Hosor	Stre	o+7	Lann	TO T	Ven	and	Diana	w	Har	ntoon
Tree Ond	per, mu	ucscu			teen .				Diana	ın.	1100	шооп,
			unu	J.Our	ceen .	210060	icurus.	•				
Number of n	ames regi	stere	d,	_	-	-	_	_	-	-	-	421
Males,		-	-	-	_	-	-	-	- •	_	-	283
Females,		-	-	-	-	-	-	_	-	_	-	138
Average atter		_	_	-	_	_	<u>-</u> ·	_	_	_	_	138
Length of ses		·six	eveni	ngs.	(56).							
Expense of the	, ,		_	_	_	-	_	_	_	_	_	\$977.40
	evening,		_	_	_	_	_	_	-	_	_	17.453
*	term, for			_	_	_	_	_	_	_	_	4.987
-	evening,					-	_	_	_	_	_	.089
•	0,	•		, , , , , , , , , , , , , , , , , , ,								
Items of expe												
Pay-roll,		-	-	-	~	-	-	-		~	-	\$769.00
Heating,		-	-	-	-	-	-	-	-	-	-	47.50
Lighting		-	-	-	-	-	-	-	-	-	-	62.96
Janitor,	(services,	labor	, ma	terial	s, &c	.),	-	-	-	-	-	51.10
Lumber	for repair	ing,	-	-	-	-	•	-	-	-	-	9.59
20-100 of	cost of b	ooks,	&c.,	furn	ished	, -	-	-	-	-	-	19.00
Miscellar	ieous,	-	-	-	-	•	-	-	-	-	-	18.25
	Total										-	@OFF 40
	Total,	-	-	-	-	-	-	-	-	_	-	\$977.40

TEACHERS' ASSOCIATION.

The Lowell Teachers' Association has been in existence three years. Its meetings are held in the High School-house on the first Wednesday afternoon of each month in term time, and continue one hour. Every teacher is considered a member. Attendance is enforced by no rule of the Committee, as it is in many if not all the large western cities, but each teacher is cordially invited and cordially welcomed. The object of the Association is mutual improvement, by social intercourse, by discussions upon educational matters, by exchanging ideas upon methods of teaching and discipline,

and by attempting to create an *esprit de corps* which shall banish jealousy and make each teacher feel personally interested in the success of every other. The object must be regarded by every reflecting person as a laudable one.

More than seven thousand children are yearly intrusted to the care of the one hundred and fifteen teachers. Some of these teachers have had long experience. But experience is not skill, and sometimes it may happen that the teacher of short experience may teach the old teacher.

At the meetings there have been many very interesting exercises. Essays have been read, methods of teaching explained, illustrated and criticised, and classes have been exercised by teachers of every grade of schools. The teachers of the High School have shown special interest in the meetings by their constant attendance and hearty co-operation, being always ready to occupy time when others fail. I believe we are doing a good work in the Association. I commend it to the fostering care of the Board.

CHARLES MORRILL,

Superintendent of Public Schools.



REPORT OF COMMITTEE ON MUSIC.

AGREEABLY to the rules of the School Committee, requiring the Committee on Music to make an annual report, we submit the following.

The Committee on Music have attended to their duty as examiners of this branch of study in the public schools, and report that the teacher of music has performed his duty during the year with faithfulness and devotion.

The following report obtained from him gives a clear and concise statement of his system of classifying and ranking, and the results of his teaching:—

"I have devoted my time during the past year to two classes in the High School, reciting twice each week, and forty-six classes in the Grammar Schools, reciting once each week. These classes are arranged in five grades, and are instructed and ranked accordingly. All the pupils in the public schools are required to participate in the singing exercises, unless excused for good and sufficient reasons. All who give good attention and join as best they can in the lessons are ranked 100, which is marked upon their school cards each week. All who excel receive special credits, which are used to determine the music rank of the room to which they belong These credits are given only by the Music Teacher, who registers the names of the pupils, the number of credits, &c. Most of the regular

teachers in the schools have manifested much interest in the musical exercises, which has been shared in to a large extent by their pupils. The result of this is more and better singing, and a more general knowledge of the elementary principles, than ever before.

"Nineteen hundred and sixty-nine special credits were given last term to one thousand sixty-four different pupils in the Grammar Schools, leaving only about five hundred and twenty-five of the average number belonging who received none. Of this number of pupils there were about two-thirds as many boys as girls. The average rank in the master's room was ninety, in all the others one hundred and thirty-nine."

Respectfully submitted.

J. W. B. SHAW,
WM. H. LOUGHLIN,
G. F. SCRIBNER,
S. G. MACK,
PETER LAWSON,

Committee
on
Music.

APPENDIX.

NUMBER ONE.

TEXT-BOOKS USED IN THE HIGH SCHOOL.

Harkness' Latin Grammar; Harkness' Latin Reader; Harkness' Latin Composition; Hanson's Latin Prose; Hanson's Latin Poetry; Andrews' Latin Lexicon; Goodwin's Greek Grammar; Arnold's Greek Composition; Goodwin's Greek Reader; Owen's Homer; Liddell & Scott's Greek Lexicon; Eaton's Arithmetic; Eaton's Algebra; Davies' Legendre's Geometry; Davies' Legendre's Trigonometry; Davies' Surveying; Magill's French Grammar; Magill's French Reader; College Plays, by Bocher; Spiers' French Dictionary; Smith's Smaller History of England; Smith's Smaller History of Grecce; Anderson's Bloss' Ancient History; Green's English Grammar; Hart's Composition and Rhetoric; Spalding's English Literature; Alden's Science of Government; Winslow's Intellectual Philosophy; Wayland's Moral Science; Hooker's Natural History; Quackenbos' Natural Philosophy; Steele's Chemistry; Kiddle's Astronomy; Tenney's Geology; Wood's Botany; Dalton's Physiology; Warren's Physical Geography; Mitchell's Ancient Geography; Song Garden; Webster's and Worcester's Dictionaries; Otto's German Grammar and Reader.

TEXT-BOOKS USED IN THE GRAMMAR SCHOOLS.

Greenleaf's Common School Arithmetic; Green's Grammar; Our World, by Miss Hall; Guyot's Intermediate and Common School Geographies; Anderson's Grammar School History of the United States; Hillard's Fifth Reader; Hillard's Intermediate Reader; Worcester's Pronouncing Speller; Colburn's First Lessons in Arithmetic; Payson, Dunton & Scribner's Writing Books; Bartholomew's Drawing Books, new series.

TEXT-BOOKS USED IN THE PRIMARY SCHOOLS.

Hillard's Third Reader; Hillard's Second Reader; Hillard's Primer; Walton's Primary Arithmetic; Our World, by Miss Hall; Bartholomew's Drawing Slate and Cards.

NUMBER TWO.

COURSE OF STUDY FOR THE HIGH SCHOOL.

ENGLISH COURSE.

FIRST YEAR. First Term—Algebra, Mental Arithmetic, Ancient History, Natural History. Second Term—Algebra, Mental Arithmetic, English History, Natural Philosophy.

SECOND YEAR. First Term—Geometry, Physical Geography, Natural Philosophy. Second Term—Geometry, Chemistry, English Grammar, English Literature.

THIRD YEAR. First Term—Geology, Arithmetic, Physiology. Second Term—Astronomy, Political Science, Rhetoric or Botany.

FOURTH YEAR. (Optional.) First Term—Intellectual Philosophy, English Literature, and either French, or German, or Latin. Second Term—Botany, Moral Philosophy, and either French, or German, or Latin.

Reading, Drawing and Music throughout the course. French, German, Latin, Trigonometry and Surveying are optional in *Three Years' Course*.

CLASSICAL COURSE.

FIRST YEAR. First Term—Latin Grammar and Reader, and Algebra. Second Term—Latin Grammar and Reader, and Algebra.

SECOND YEAR. First Term—Cæsar, Geometry. Second Term—Cæsar, Greek Grammar and Lessons.

THIRD YEAR. First Term—Virgil, Greek Reader. Second Term—Virgil, Greek Reader.

FOURTH YEAR. First Term—Cicero, Greek Reader. Second Term—Cicero, Homer.

Optional Studies. French through the course. Trigonometry and Surveying in the $\it third$ year.

NUMBER THREE.

SERIES OF QUESTIONS PROPOSED FOR THE EXAMINATION OF APPLICANTS TO ENTER THE HIGH SCHOOL.

QUESTIONS IN HISTORY.

- 1. State what you know of the first voyage of Columbus to America.
- 2. Who discovered the river St. Lawrence, and where was the first permanent French settlement in Canada made?
- 3. Upon what did the English base their claim to territory in America, and what division was made of it by King Charles in 1606?

- 4. Where in Connecticut did the Dutch build a fort in 1630, and for what purpose?
 - 5. What was the object of the union of the N. E. Colonies in 1643?
- 6. What claim to territory did the Dutch make after the discovery of the Hudson River, and what name did they give to the territory?
- 7. What induced Sir George Calvert to attempt the founding of a Colony in America ?
- 8. During the French and Indian War, what was the great object of the Campaign of 1759?
- Mention some of the provisions of the "Stamp Act," passed by Parliament in 1765.
- 10. Who took command of the American army around Boston after the battle of Bunker Hill?
- 11. What was the design of Gen. Burgoyne in his invasion of the United States from Canada in 1777?
 - 12. When and where was Washington inaugurated President?
 - 13. What States were admitted to the Union during his administration?
 - 14. What was the most important event during Monroe's administration?
 - 15. To what did the annexation of Texas to the Union lead?
- 16. What territory did the United States acquire at the close of the Mexican War?
 - 17. Give an account, with the cause, of the riot in New York City, July, 1863?
 - 18. How many presidents of the United States have there been?
- 19. Name the vice presidents who, by the death of their predecessors, became presidents?
 - 20. How is the president of the United States chosen?

QUESTIONS IN GEOGRAPHY.

- 1. Mention the Continents in the order of their size.
- 2. Where are large cities generally found, and why?
- 3. What can you say of the rivers of South America?
- 4. What can you say of Chili?
- 5. Name some of the capes and peninsulas on the eastern coast of the United States?
- 6. In what part of Africa is the highest system of mountains, and what plateau terminates it on the north?
 - 7. Where is lake Tanganyika?
 - 8. Where are the longest rivers of Asia found?
 - 9. Of what is the empire of Japan composed?
- 10. What is the longest river of Europe, and in what direction does it flow in the first half of its course?
 - 11. What and where is the principal commercial city of Prussia?
 - 12. Name the principal rivers of France.
 - 13. What is the extent of France?
 - 14. What hills form part of the boundary between England and Scotland?
 - 15. How can St. Louis send goods to the northern borders of our country?
 - 16. Where is Milwaukee?

- 17. What is the largest city on the Mississippi between St. Louis and New Orleans?
 - 18. What States are separated by the Mississippi River?
 - 19. Describe the course of the Tennessee River.
- 20. Draw a map of Massachusetts without construction lines, locate Lowell, Boston, New Bedford and Springfield, and draw the Connecticut River with its tributaries.

QUESTIONS IN GRAMMAR.

- 1. Into what three classes are limiting adjectives divided?
- 2. Write the plural of berry, sheaf, pailful, memorandum, and radius.
- 3. Decline box.
- 4. What is a proposition, and into what classes are propositions divided?
- 5. Give three examples of irregular verbs.
- 6. Write the past perfect tense, second person, singular number of the verb pay, in both voices.
 - 7. Give the principal parts of the verbs, lie, set, hurt, sit and lay.
 - 8. What is meant by reconstructing a sentence?
- $9. \;\;$ Into what general classes are adverbs divided? Give an example of each class.
 - 10. Correct the following sentences:
 - 1. Whom do you think called on me this morning?
 - 2. Was it her that came?
 - 3. England expects every man to do their duty.
 - 4. He done everything I asked him to do.
 - 5. He said how he believed it.
 - 11. Write a sentence containing words, phrases, and a clause as elements.
 - 12. Give an example of a complex element.
 - "Let what you have gained be an impulse to something higher."
 - 13. Parse let.
 - 14. Parse what.
 - 15. Parse be.
 - 16. Parse impulse.
 - 17. Parse higher.
 - 18. The storm rising, he hastened home. Parse storm and home.
- 19. To state a fact precisely is one of the rarest powers possessed by man. Parse is and possessed.
 - 20. Correct whatever is wrong in the following:
- to R H Dana Jun esq the wel known auther of "two years before the Mast the community is grately indetted.

QUESTIONS IN ARITHMETIC.

- 1. What is the sum of three, and eighteen ten thousandths; one thousand five, and twenty-three thousand forty-three millionths; eighty-seven, and one hundred seven thousandths; forty-nine ten thousandths?
 - 2. What part of 2 acres is 1 acre, 1 rood, 16 rods?

- 3. If the value of \(\frac{1}{2} \) of a farm is \$1165, what is the value of \(\frac{1}{2} \) of the remainder?
- 4. What is the amount of \$1000 for 3 years, 2 months, 24 days, at 9 per cent.?
- 5. What principal will gain \$48.45 in 2 years, 1 month, 15 days, at 6 per cent.?
- 6. Bought a cow for \$93.73 and gave my note to be paid in 6 months without interest; I sold her the same day and gained twenty per cent. on my bargain; how much did I get for the cow?
 - 7. From $\frac{3}{8}$ of $12\frac{5}{6}$ take $\frac{2}{5}$ of $9\frac{7}{12}$.
 - 8. Reduce $\frac{3}{80}$ to a decimal.
 - 9. Divide 15½ by 3.875.
- 10. The avails of a note discounted at a bank for four months at 6 per cent. were \$1959; what was the face of the note?
- 11. Lent my neighbor a ton of hay which he is to return to me next year with eight per cent. additional; how much hay shall I receive?
 - 12. In dividing $\frac{3}{5}$ by $\frac{7}{8}$ what will be the denomination of the quotient?
- 13. A. can do a certain piece of work in 6 days; B. can do the same in 4 days; and C. can do the same in 3 days; how many days would it take the three together to do it?
- 14. In multiplying .875 by .0045, what denomination is obtained when the 7 is multiplied by the 4?
- $15.\;$ If 8 horses consume 42 bushels of grain in 24 days, how many days will 336 bushels last 32 horses?
- 16. Sold a quantity of oats for 30 cents a bushel and gained 20 per cent.; what per cent. should I have gained or lost if I had sold them at 26 cents a bushel?
 - 17. Raise 3 to the fourth power and extract the square root of the power.
- 18. I have a square pasture containing 15 A. 2 R. 20 rods; what is the distance around it?
 - 19. What is the least common multiple of 10, 12, 16, 20 and 24?
 - 20. Extract the cube root of 5832.

SPELLING.

Conceited, Disburse, Gelatine, Crystal, Tenacity, Perverse, Inseparable, Mazy, Chagrin, Armistice, Gossamer, Celery, Versatile, Iodine, Incendiaries, Salvage, Vestige, Siphon, Physician, Preferred.

NUMBER FOUR.

NAMES OF HIGH AND GRAMMAR SCHOOL TEACHERS, THEIR SCHOOLS, DATE OF ELECTION, SALARIES AND RESIDENCES.

1871. SCHOOLS.	TEACHERS.	ELECTED.	SALARIES.	RESIDENCES.
High	Chas. C. Chase, Principal, Levi S. Burbank	1845 1867	\$2,200 1,800	9 Nesmith Street. 403 Merrimack Street.
	James S. Russell	1835	1,700	29 Nesmith Street.
	Mary A. Webster	1860 1859	650 650	57 Bridge Street, (Cen.) 381 Merrimack Street.
	Marietta Melvin Elizabeth McDaniels	1868	650	Gates, near Westf'd St.
	Harriet C. Hovey	1870	650	8 Fourth Street, (Cen.)
Cl Cl-12 a	Charlotte E. Draper	1870	650	15 Kirk Street.
Grammar Sch's.				
Bartlett	Sam'l Bement, Principal.	1851	1,700	428 Merrimack Street.
	Marianne B. Kent	1859 1848	500 500	428 Merrimack Street.
	Salva Wright	1861	500	49 Third Street, (Cen.) Cor. Paw't and Fl'r. 38 Worthen Street.
	Sabra Wright Cemantha R. Nichols	1867	500	38 Worthen Street.
	Mary C. Gardner	1860	500	Mt. Wash'n near Var'y.
	Sophia P. Wetherbee Caroline E. Holt	1847 1856	500 500	19 Kirk Street. 430 Merrimack Street.
Colburn	Perley Balch, Principal	1871	1,700	42 Chapel Street.
	Perley Balch, Principal Elizabeth W. Frost Susan A. Andrews	1857	500	30 Hurd Street.
	Susan A. Andrews	1864 1868	500 500	18 Mill Street.
	Sarah J. Crosby Emma C. Sawyer	1867	560	133 Gorham Street. Dr. Gage, Bridge St.
	Arvilla L. Reader	1871	500	74 Appleton Street.
Edson	Ira Waldron, Principal	1870	1,700	42 Walnut Street.
	Helen M. Hunt Maria C. R. Swan	1866 1862	500 500	80 Lawrence Corp. 6 Franklin Square.
	Anna A. Sargent	1864	500	Linden Street.
	Maria C. R. Swan Anna A. Sargent Mary F. Carleton Helen C. Frye. Olive W. Beane Mary A. Balch S. G. Bailey, Principal	1856	500	18 Chapel Street.
	Helen C. Frye	1871	500 500	257 Central Street.
	Mary A Balch	1860 1865	500	10 Queen Street. 42 Chapel Street.
Franklin			1,700	51 Hanover Street.
	Sarah E. French	1867	500	Branch, cor. School St.
	Abbie F. Woodward Emma L. Crosby		500 · 500	26 Race Street. 133 Gorham Street.
	Luella A. Wardwell	1870	450	12 East Pine Street.
Green	Geo. F. Lawton, Principal		1,700	24 Stackpole Street.
	Ida A. Hill	1870 · 1871	500 400	7 Cabot Street. 51 Hanover Street.
	Nettie E. Carleton	1867	500	18 Chapel Street.
			500	12 Kirk Street.
	Ida Sheldon	1871	400 500	35 Howard Street.
	Emma I. Pevey	1860 1868	500	57 Merrimack Corp. 8 Dutton Street.
	Annie E. Richardson	1871	500	25 Lawrence Corp.
Mann	Alice H. Thurston Ida Sheldon Ellen S. Burrill. Emma L. Pevey Annie E. Richardson Sam'l A. Chase, Principal Nellie M. Gallagher Laura F. Howe Celestia P. Chase.	1853	1,790	50 Bartlett Street.
	Laura F Howe	1868 1856	500 500	17 Race Street. 37 Andover Street.
			500	7 Tilden Street.
	Julia M. Healey	1870	450	45 Worthen Street.
Moody	S. Elizabeth Dean	1856 1867	1,700 500	J. B. French's, Ch'd St
	Diana M. Huntoon		500	12 Dodge Street.
	Helen A. Haggett	. 1865	500	8 High Street.
	Laura J. Pinder	1856 1860	500 500	35 Tyler Street. 46 High Street.
	Mary E. Way	1858	500	22 Tyler Street.
Varnum	Sarah E. Bailey Mary E. Way D. P. Galloupe, Principal	1853	1,700	Methuen Street.
	Harriet Bradlev	1854	500	First Street.
	Sarah F. Dillingham Sarah A. Bradley	. 1870 . 1857	450 500	Bridge, n'r Fifth, (Cen.)
	Clara A. Hannaford	1869	500	Cor. Fourth and Read.
	*D Hamison	1965	1 500	Aglington Street
	*B. Harrison †George F. Willey	. 1865 1866	1,500 1,500	Arlington Street.

^{*} Teacher of Penmanship and Book-keeping in High and Grammar Schools. † Teacher of Vocal Music in High and Grammar Schools.

NAMES OF PRIMARY SCHOOL TEACHERS,

THEIR SCHOOLS, DATE OF ELECTION, SALARIES AND RESIDENCES.

Schools.	TEACHERS.	ELECTED.	SALARIES.	RESIDENCES.
D. 1. N. 1				
Primary No. 1	Ella S. Stanwood	1871	\$400	28 Mass. Corp.
$\frac{2}{2}$	Kate S. Hamlin	1870	450	Cor. Var. and Mt. Wash.
3 4	Abbie G. Watson	1869 1855	500 500	Chelmsford Street. 18 Chapel Street.
5		1854	500	62 Lawrence Street.
6		1871	400	Lane Street.
7		1867	500	2 Tyler Street.
8		1866	500	Cor. 6th and Toppan.
9	Martha S. Williams	1854	500	248 Central Street.
10	Martha A. Neal	1847	500	12 Dodge Street.
11	Bella V. McAnulty	1867	500	5 Hurd Street.
12		1838	500	125 Moody Street.
13		1871	400	34 Rock Street.
14 15		1870 1869	450 500	8 High Street. 34 Church Street.
16		1870	450	25 Willow Street.
17	Sarah C. Fiske	1866	500	100 Appleton Street.
18	Eliza Cowley	1857	500	154 Lawrence Street.
19	Lizzie N. Smith	1871	400	42 Bartlett Street.
20		1871	400	180 Gorham Street.
21	Sarah L. Gates	1845	500	34 Walnut Street.
22	Ella E. Gardner	1871	400	Mt. Washington Street.
23		1867	500	51 Bridge Street.
24		1857	500	23 Howard Street.
25 26		1844	500	11 Ash Street.
27	Charlotte E. Brown Mary E. Drew	1870 1868	450 500	31 Suffolk Street. 24 Wamesit Street.
28	Emily M. Warren	1842	500	Chelm'd & Howard Sts.
29	Jennie C. Woodward,	1871	400	26 Race Street.
30		1871	450	41 Appleton Street.
31	Abby D. Gates	1854	500	34 Walnut Street.
32	Ellen F. Coughlan	1853	500	338 Merrimack Street.
33	Amanda M. Hadley	1870	450	8 Russell's Blk.Suff'k St.
34	Lizzie L. Lowe	1857	500	2 Nichols Street.
35	Clara A. Emerson	1869	500	64 Andover Street.
36 37		1844	500 500	Coral and Grove Sts.
38	Mary O. Kidder	1861 1865	500 500	246 Central Street. 143 Moody Street.
39	Emma J. Alford	1870	450	31 Elm Street.
40	Sarah E. Scales	1866	500	Central and Lyon Sts.
41	Lilla J. Greenhalge	1871	400	35 Worthen Street.
42	Lizzie M. Hadlev	1869	450	26 Hall Street.
43	Nellie M. Brown	1865	500	31 Suffolk Street.
44	Mary L. Hill	1858	500	40 Worthen Street.
45	Ellen M. White	1863	500	24 Chapel Street.
46	Ella A. Bailey	1869	500	26 Third Street, (Cen.)
47 48	Miranda W. Bradley. Marion A. Scott	1852 1870	500 450	First Street, (Cen.)
49	Marcella M. Patten	1868	500	50 Durant Street, (Cen.) 46 Third Street, (Cen.)
50	Elvira L. Currier	1869	450	207 Central Street.
51	Mary J. Alger	1868	500	106 High Street.
52	H. Maria Mansur	1870	450	11 Tyler Street.

SUMMARY OF THE ANNUAL RETURNS

OF THE

PUBLIC SCHOOLS OF THE CITY OF LOWELL,

FOR THE YEAR ENDING DECEMBER 30TH, 1871.

			_	-0000-0-10
		Per cent. of a	97	90 98 98 98 98 98
	ars of age in ISI.	Under ten ye December,	•	50 27 27 19 19 19 19 19 19 19 19 19 19 19 19 19
l	nd fifteen years scember, 1871.	Between ten a	54	237 153 302 208 208 271 132 157 157
I	mi ears of age in 1781.	Over fifteen J December, 1	217	30 11 18 22 22 22 22 11 11 11 139
	gal certificates; for mills.	No. having le	0	272 25 25 25 25 25 25 25 25 25 25 25 25 25
1	shools schools	Sent to other gr	0	24 8 8 8 8 11 11 11 11 13 13 13 13 13
	sloons schools de.	Sent to other arg smas to	0	71 8 8 8 20 14 14 17 11 13
1	ame grade.	Received fron	•	203 203 203 203 203
	n other public	Received fron	122	104 104 174 174 174 177 177 178 188 188 171 178 178 178 178
	ot rec'd from	зид отрел Б	4	17 16 18 24 18 26 27 20 20 20 20 20 20 20 20 20 20 20 20 20
	e. ice.	Total.	267	271 191 323 323 186 288 157 157 181
	Average daily Attendance	Females.	154	127 89 152 92 150 30 143 97
	Atte	Males.	113	144 102 171 94 138 127 143 143 163
	No.	Total.	275	297 215 351 207 318 173 320 200 200
	Average No. of pupils belonging to school.	Females.	158	139 102 100 101 167 163 105 105
		Males.	117	158 113 185 106 151 139 157 157 157
	o. of sime- nce s71.	Total.	396	510 416 588 337 564 309 524 346 3594
-	Whole No. of rupils on timebook since Jan. 1, 1871.	Females.	559	246 184 280 1155 265 185 185 1656
	Whole No. of pupils on time- book since Jan. 1, 1871.	Males.	167	264 232 308 182 252 253 259 161
		Total.	271	317 220 371 247 350 158 330 218 2211
1	No. of pupils belonging, December 30, 1871.	Females.	154	148 98 182 123 123 188 28 172 1165
١	No. bel Dece	Males.	111	169 189 189 189 162 130 158 102 1156
	rs.	No. of Teache		53 54 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	LOCARION		Anne and Kirk Streets	Clark Street. Lawrence Street Lawrence Street Branch Grermack Lewis E. Merrimack & High Sts. Myrtle Street, (Cen.) Totals.
	10001		High,	Grammar Schs. Bartlett Oolburn Granklin Franklin Franklin Mann. Moody

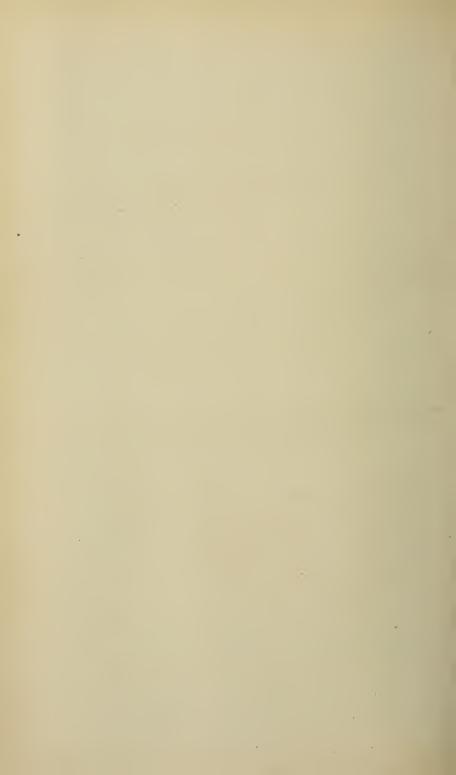
Summary of the Annual Returns of the Public Schools — Continued.

Per cent. of attendance.	89 888888888888888888888888888888888888
Under ten years of age in December, 1871.	22 25 25 25 25 25 25 25 25 25 25 25 25 2
Between ten and fifteen years of age in December, 1871.	748895919998#4
Over fifteen years of age in December, 1871.	0000000000000000
No. having legal certificates of mills.	H 830100000000
Sent to other public schools of higher grade.	79111203 4 6 6 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1
Sent to other public schools of same grade.	100 100 100 100 100 100 100 100 100 100
Received from other public schools of same grade.	100 100 100 100 100 100 100 100 100 100
Received from other public schools of lower grade.	0000000000000000
No. entered not rec'd from any other public school.	21 13 18 18 18 18 18 18 18 18 18 18 18 18 18
Total.	8248824888212442
Males. Attendance females.	253 171 182 183 184 171 171 171 171 171 171 171 171 171 17
Males.	2022 1111 2027 1188 2017 2017 2017 2017 2017 2017 2017 2017
Total.	44848444488488 80 80
Males. School of pupils of Pupils Females. Total.	2020 1138 1138 1138 1138 1138 1138 1138 113
Males. be o by	22 4 2 2 2 2 2 2 2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
frime- Total.	1081 98 98 98 98 98 98 98 98 98 98 98 98 98
Whole No. of pupils on time-book since Jan. 1, 1871. Females.	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Males. Ja by Wi	88888888888888888888888888888888888888
Total.	255 255 255 255 250 250 250 250 250 250
No. of pupils belonging, belonging, 1871. Total. Total.	250 250 250 250 250 250 250 250 250 250
Males. D p v	252 360 360 360 360 360 360 360
LOCATION.	School Street Page Chape Chape Elliot Worthen Worthen Howard Grand Fowell Adams East Merrimack Street Colburn Street Fourth Totals
PRIMARIES, UNGRADED. Six Classes in each School.	No.

Summary of the Annual Returns of the Public Schools -- Continued,

		89188358838	89 30 31 32 32 32 32 33 34 34 35 35 35 35 35 35 35 35 35 35 35 35 35
Per cent. of attendance.			
Under ten years of age in December, 1871.		258 288 288 288 288 288 288	447 633 50 50 50 50 50 50 50 50 50 50 50 50 50
nd fifteen years cember, 1871.		21 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	00000000
ni egge in 1781.	Over afteen J	000000000	000000000
No. having legal certificates of schooling for mills.		401084801	000000000
Sent to other public schools of higher grade.		8881788888	2122888221828
Sent to other public schools of same grade.		21110047777	112411 9 4 2 57
Received from other public schools of same grade.		26 105-7-7-7-25	01 410 21 8 8 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
n other public	Received fron	23 88 125 8 8 2 2 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8	000000000000000000000000000000000000000
not rec'd from	No. entered r any other p	111111111111111111111111111111111111111	88.744444.88
se nee.	Total.	84188488384 8	971884884488 ST
Average daily Attendance	Females.	21 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	14 255 20 20 20 8 10 18 147
Att	Males.	114 20 20 20 20 20 20 20 20 20 20 20 20 20	26 27 27 27 27 27 27 17 17 17 195
No. Is g to	Total.	88.25.25.25.25.25.25.25.25.25.25.25.25.25.	386 33114543346
Average No. of Pupils belonging to	Females.	11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1121 212 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25
Ave of bed	hlales.	253 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	252 252 252 252 252 252 252 252 252 252
No. of time- tince 1871.	.tetoT	832 104 104 118 104 118 104 118 852	118 119 1109 1109 1118 93 118 101 101 101 104 104 105 105 105 105 105 105 105 105 105 105
Whole No. of pupils on time book since Jan. 1, 1871.	Females.	25.12482432439 85.4 85.4 85.4 85.4 85.4 85.4 85.4 85.4	328474888 8
Who pupi bo	Males.	25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	516 25.25.25.25.25.25.25.25.25.25.25.25.25.2
ipils 1g r 30,	Total.	252 252 253 253 253 253 253 253 253 253	43 8 8 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
No. of pupils belonging December 30, 1871.	Females.	200 80 82 82 82 80 80 80 80 80 80 80 80 80 80 80 80 80	182 233 233 233 233 233 233 233 233 233 2
No. be Dec	Males.	255 256 212 212 212 212 212 212 212 212 212 21	25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
LOCATION.		Middle Street. Church Tilden Carter High Charles Robot Rock Myrthe Totals	Middle Street Church Tilden Carter High Charles Cabot Rock Myrtle
PRIMARIES, GRADED.	Three Classes in each Grade.	Upper Grade	Lower Grade. No. 29 10. 23 11. 31. 31. 31. 31. 31. 45. 46. 46.

88888888888	88888888	86558688
12 42 22 22 24 24 24 24 24 24 24 24 24 24	18 4 4 5 5 4 4 5 5 6 5 6 5 6 5 6 5 6 5 6 5	50 27 61 61 61 61 61 62 61 63 61 64 64 64 64 64 64 64 64 64 64 64 64 64
132 150 150 150 150 150 150 150 150 150 150	36 24 4 38 570,	2012 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18
0000000	0000000	356
00 601604	15 15	361 10 25 00 1
20 24 24 18 18 33 33 201	012422824	25 25 36 20 20 20 28 60 230 1419
11 22 4 2 4 2 8	084141-8 B	31 6 7 7 10 10 18 3 7 7 7 7 7 7
123 3 3 6 9 9 6 4 6	420000011	7 6 9 12 12 49 49 49 49 49 49 49 49 49 49 49 49 49
10 27 22 22 40 40 26 34 193	252 252 252 253 253 253 253 253 253 253	1362
114088140 ÿ	<u>- 5</u>	73 55 54 49 51 51 40 407
282 282 283 283 283 283 283 283	23 83 83 83 83 83 83 83 83 83 83 83 83 83	44 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
25 22 10 10 21 21 21 131	16 23 15 8 8 21 3 16 102	1949 1949 1949
118 127 274 274 187 1181	200 200 200 200 200 200 200 200 200 200	21 20 20 33 33 27 22 179 179
319 44 53 44 518	24 62 62 62 62 62 62 62 62 62 62 62 62 62	51 54 54 53 53 54 54 54 54 54 54 54 54 54 54 54 54 54
25 25 25 11	22 12 121 121 121 121	27 20 20 6 6 14 149 149 266 149
0248124200	8888888 171	2505 2505 2505 2505 2505
988 1796 1059 688	74 98 99 109 87 1117 631	133 116 101 91 140 128 128 846 846
32 55 33 48 51 56	259 259 259 259	70 63 50 24 47 47 63 63 63 42 44 42 42 42
04442684 58	37 37 37 37 37 37 37 37 37 37 37 37 37 3	63 51 67 62 93 65 454 4785
3624446884 68	173 4 4 8 8 4 O	52 61 61 62 52 52 52 52 79 4986
88887898	150 120 120 120 120 120	25 24 24 21 11 11 12 25 25 25 26 26 27 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28
17 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	131838888	257 250 355 271 261 271 261 271 261 271
Middlesex Street Chapel Branch Lewis Lawrence Cross Fayette Totals	Elliott Street. Central " Branch " Lewis " Lawrence " Cross " Fayette " Totals	Middlesex Street Chapel Branch Lewis Lawrence Salem Fayette Totals.
Graded. Upper Graded. No.15	Middle Grade. (No. 30. 18. 18. 18. 18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	Lower Grade. 6. (No. 6. 21 27 27 27 27 28 41 42 16 16



THE

AUDITOR'S

THIRTY-SIXTH ANNUAL REPORT

OF THE

RECEIPTS AND EXPENDITURES

OF THE

CITY OF LOWELL,

TOGETHER WITH THE TREASURER'S ACCOUNT FOR THE FINANCIAL YEAR ENDING DECEMBER 31, 1871.



CITY OF LOWELL.

 $\label{eq:common council} \text{In Common Council, February 13, 1872.}$ Read and sent up to the Board of Aldermen.

GEORGE GARDNER,

Clerk.

In Board of Aldermen, February 13, 1872.

Received and read.

SAMUEL A. MCPHETRES,

City Clerk.

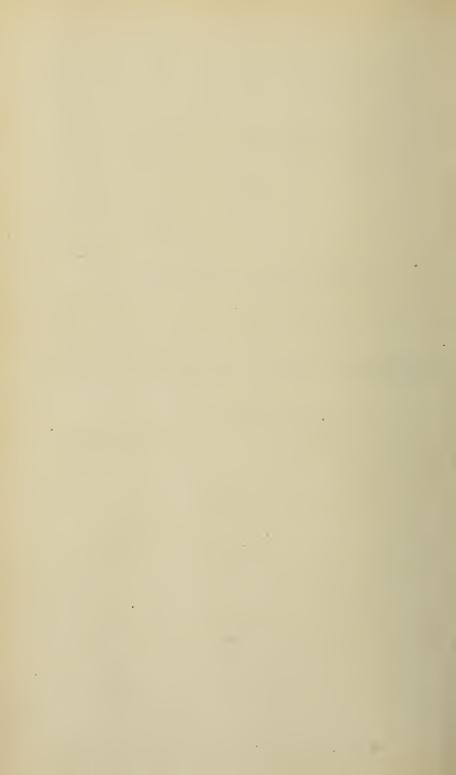
AUDITOR'S REPORT

OF THE

RECEIPTS AND EXPENDITURES

FOR THE YEAR ENDING

DECEMBER 31, 1871.



AUDITOR'S REPORT.

CITY OF LOWELL,
AUDITOR'S OFFICE, February 13, 1872.

To the City Council of the City of Lowell:

The Auditor of Accounts, in compliance with the requirements of the City Ordinance, herewith presents to the City Council the Thirty-Sixth Annual Report of the Receipts and Expenditures of the City of Lowell, for the financial year which terminated on the 31st day of December, 1871, with the details under the separate heads.

Annexed are schedules of all the property of the City, a statement of the City Debt, and the debts due the City.

RECEIPTS.

The whole amount of money received into the Treasury from

all sources, from December 31st, 1870, to December 31st, 1871, as					
by the account of the Treasurer, was\$1,309,373 79					
Of this amount there was received					
For Taxes of 1869 81 20					
Taxes of 1870 3,021 49					
Taxes of 1871 467,863 79					
\$470,966 48					
Total amount received for Taxes\$470,966 48					

Received on account of RE-SERVED FUND:

From Huntington Hall, for rent From Jackson Hall, for rent From Market House Building,	\$2,637 19Q	
for rent (of store and cellar).	. 1,000	00
Amounts carried forward	\$3,827	00

Amounts brought forward.	\$ 3,827	00	\$470,966 48
Received on account of RE- SERVED FUND:			
From Commonwealth, for rent of Armories, for 1870	1,200	00	
From City Government Build-	2.150	0.0	
ing, for rent of stores From heating stores in City	2,150	00	
Government Building From Carleton & Hovey, for	150	00	
rent of attic, City Govern- ment Building	36	00	
From Sydney Davis, Superintendent of City Scales, fees			
for Weighing	763	07	•
From Sydney Davis, for fees as Measurer of Wood and			
Bark	400	15	
From Sydney Davis, for manure,		÷	
(City Landing)	20	00	
From D. W. Horne, for fees received for weighing arti-			
cles on private scales, after			
deducting commission	26	25	
From City Clerk, for Marriage	015	50	
From City Clerk, for Recording	315	90	
Mortgages and Assignments			
of Wages	483	55	
From City Clerk, for Sundry	1.045	0.0	
From John H. Gilman, Super-	1,045	20	
intendent of Burials, for use			
of hearses	14	90	
From Walter H. Leighton, Su-			
perintendent of Burials, for use of hearses	57	75	
From sundry persons, for costs	•	•	
on Taxes and interest on			
the same	444	27	
From Owen Reilly, for hawkers' and peddlers' license	25	00	
From Commonwealth, re-in-	20	00	
bursement of Militia Bounty,			
Fall Encampment, 1870	2,322	00	
Amounts carried forward	\$13,280	70	\$470,966 48

疏

Amounts brought forward :	\$13,280	70	\$	\$470,966	48
Received on account of RE- SERVED FUND:			·		
From Mutual Improvement Society, for use of Committee	0				
Room From W. F. Eno for broken	9	00			
shades	1	00			
paid before sale From St. Anne's Society, for	3	16			
wood	1	00 =			
G. Gerrish	2	75			
for same From Fisher A. Hildreth, for cost of advertising his land for sale for non-payment of	7	90			
sewer assessment From New England Agricultural Society, for music, use of	1	95			
tents, &c	200	00			
From Commonwealth, re-imbursement of Militia Bounty,	2,118	00	15,625 46	15,625	46
Received on ac't of SCHOOLS:					
From Commonwealth, being the City's proportion of the School Fund to January 1,					
1871	1,823	64			
From sundry persons, for tuition, books, &c	2,123	77	0.64		
L			3,947 41	3,947	41
Amount carried forward	••••		\$	490,539	35

Amount brought forward				• • • •	\$490,539 35
Received on ac't of SCHOOL HOUSES:					
From L. G. Howe, for old iron, broken glass and labor From J. C. & F. Ayer, rent of well privilege under Green School-house to December 31,	5	85			
1871	1	00			
From O. H. P. Trask, for fence stone	30	00			:
From Ambrose Lawrence, for Emeline W. Hill cottage,	00	00			
(Varnum School-house yard)	725	00			
From E. B. Patch, for sale of School-house, Central Street,	340	00			
· · · · · · · · · · · · · · · · · · ·			1,101	85	1 101 05
					1,101 85
Received on acc't of ROADS AND BRIDGES:					
From Sundry persons, on account of sidewalk assessments, street materials, coal, stone, labor, &c	12,794	32	12,794	32	
	•				12,794 32
Received on account of PAU- PERS:					
From City of Newburyport, for aid rendered Sarah E. Ryan, From Mrs. Horace Howard, for maintenance of son at State	5	00			
Nautical School From Lorenzo Phelps, for sales of sundry articles from farm	24	27			ħ
and board of paupers From City of Chelsea, for support of boys at the Alms-	3,620	38			
house	379	27			
From Town of Quincy, for aid rendered Mary Talbot	q	00			
Amounts carried forward	\$4,037	92		\$	504,435 52

Amounts brought forward	\$4,037	92	\$504,435 52
Received on account of PAU- PERS:			
From Thomas J. Gibbons, for support of Elizabeth Gib-			
bons at State Lunatic Hospital, (Worcester)	16 0	00	
From Charles E. Stimson, for maintenance of son at State	10 0		ņ
Nautical School From Town of Concord, for aid	6 5	50	
rendered Elizabeth Howe	33 0	00	
From Town of Danvers, for aid rendered Annie M. Welch			
and children	280 0	00	
From City of Boston, for aid rendered Mary Murphy	13 0	00	
From Town of Weymouth, for			
aid rendered Catharine Slat- tery	24 0	00	
From Town of Littleton, for	4 0	ν0	
aid rendered Rebecca Golden From Charles S. Hopkins, for)()	
maintenance of son at State Reform School (Westboro'),	13 0) <u>(</u>)	
From James Flanagan, for	10 0	<i>,</i> 0	
maintenance of son at State Nautical School	1 0	00	
From Michael Flanagan, for	1 0	,,	
maintenance of son at State Nautical School	6 5	50	
From Joseph R. Sala, for sup-	0.6		
port of children at the Almshouse	14 (00	
From Mark C. Boynton, for			
board of daughter at State Industrial School, (Lancas-			
ter)	3 5	57	
From City of Cambridge, for aid rendered Samuel Ker-			
shaw From City of Lawrence, for	31 1	10	
aid rendered Charles Knapp,	99 0	00	
From City of Charlestown, for support of boys at the			
Almshouse	429	96	
Amounts carried forward	\$5,012 5	5	\$504,435 52

Amounts brought forward	\$5,012	55		\$	504,435	52
Received on acc't of PAU-PERS:						
From Lorenzo Phelps, for board of Wm. Monahan and						
T. F. Breslow	42	86				
From Daniel Gage, for horse.	160					
From M. W. Presby, for board						
of son at the Almshouse	10	56				
From Samuel Boorn, for sup-		•				
port of daughter at State						
Lunatic Hospital, (Worces-						
ter) · · · ·	27	85				
From City of Salem, for aid						
rendered Timothy Wellman	117	50				
From Town of Miltord, for aid						
rendered Margaret Quinn	60	00				
From Hanover Dickey, for						
interest on note (for land).	18	00				
From R. N. Tullock, for board						
and nursing at City Hospi-						
tal	35	31				
From T. E. Carr, for board and						
nursing at the City Hospital,	12	50				
From David Jacobs, for nurs-						
ing at City Hospital	15	00				
From Lowell Horse R. R. Co.,						
for board of John P. Moul-						
ton, at City Hospital	17	50				
From Town of Dracut, for aid						
rendered Fred Goodhue	4	00				
From Town of Somerville, for						
support of boys at the Alms-	<u> </u>					
house	53	14				
From Lorenzo Phelps, for sup-						
port of boys at the Alms-	222					
house	209	23				
From Town of Woburn, for						
support of boys at the Alms-	0.5					
house	65	14				
From Commonwealth, on ac-	1 050	0.0				
count of State Paupers	1,373	06	7 9940	0.0		
_			7,2340	80	7 994	00
					7,234	90
Amount carried forward				S.F	11 670	32
ZZIIVO WIN CONTROL JOTOWI CONTROL				• • die	,,,,,,,,,,	02

Amount brought forward			\$511,670 32
Received on ac't of POLICE:			
From Samuel P. Hadley, Jr., Clerk of the Police Court, for services of Police Officers,			
witnesses' fees, &c., on ac't, From Bickford Lang, City Mar- shal, for services of Police	2,000	00	
Officers	13	75	
From Police Officers, for cloth, From M. O'Brien, for services	397		
of Police officers From Kirk Street Society, for	11	25	
services of Police officers From James A. Loughlin, for	5	00	
services of Police officers From Wm. Kirkby, for servi-	3	75	
ces of Police officers From John T. Chesley, for ser-	2	50	
vices of Police officers From Excelsior Hose Co., for	2	50	
services of Police officers From St. Peter's School, for services of Police officers	5	00 50	
From Church of Immaculate Conception, for services of	Z	90	
Police officers From J. D. Judge, for services	52	50	
of Police officers From W. Garin, for services of		50	
Police officers		00	
services of Police officers From R. Pearson, for services of Police officers	3	50 75	
From Skiff & Gaylord, for services of Police officers	1	25	
From Charles Shay, for services of Police officers		25	
From County of Middlesex, for rent of Police Court rooms			
to Dec. 31, 1871 From E. S. Washburne, for	875	00	
services of Police officers		25	
Amounts carried forward	\$3,388	47	\$ 511,670 32

Amounts brought forward	\$3,388 47	\$5	11,670 32
Received on ac't of POLICE:			
From Bickford Lang, City Marshall, for conveyance of boys to State Nautical School	82 00	3,47ù 47	3,470 47
Received on account of FIRE DEPARTMENT:			
From George H. Norman, for teaming From Frederick Frye, for watering Pawtucket Street From L. G. Howe, for old doors From Weare Clifford, for teaming From J. W. Bennett, for rent of land, corner of Middlesex and Grand Streets, one year, to January 1, 1872	1,581 94 210 00 3 00 170 00		
		2,014 94	2,014 94
Received on account of WATER PIPE:			,
From Lowell Machine Shop, for old hydrants and iron pipe	61 20	61 20	61 20
Received on acc't of SEW- ERS AND DRAINS:			
From sundry persons, on account of sewer assessments, &c	5,082 54	5,082 54	5,082 54
Amount carried forward			22,299 47
		*	

Amount brought forward				\$522,299 47
Received on account of COMMONS:				
From City Clerk, for use of South Common, (for cir-	"0" 0	0		
cuses,)	535 0 139 50			·
From Patrick Lynch, for old fence	14 00			
		- 688	50	688 50
Received on account of LIGHTING STREETS AND PUBLIC BUILD- INGS:				
From C. B. Coburn & Co., (Overdraft)	1 0	-	0.0	
				1 00
Received on account of RE- PAIRS OF PUBLIC BUILDINGS:				
From Boston & Lowell Railroad Co., for one-half the expense of repairing the roof		ŵ		
of Huntington Hall building in 1870	38 4	€		
From L. G. Howe, for labor, old iron, clock and paint	12 4		94	
				50 94
Received on acc't of CITY LIBRARY:				
From County of Middlesex, on acc't of Dog licenses, 1870 From Marshall H. Clough, Li-	1,486 -8	0		
brarian, for subscriptions From Marshall H. Clough, Li-	569 5			
brarian, for catalogues	51 7	0		
Amounts carried forward	\$2,108 0	0		\$523,039 91

Amounts brought forward	\$2 108 00	و	\$523,039 91
Received on acc't of CITY	\$2,100 00	4	,,000 01
LIBRARY:			
From Marshall H. Clough, Librarian, for fines	26 20		
From Marshall H. Clough, Librarian, for supplements	12 10		
From Marshall H. Clough, Librarian, for lost books	8 80		
		2,155 10	.0.155.10
Received on acc't of CITY DEBT:			2,155 10
From the Executors (March 6, 1871) of the last will and testament of Thomas Nesmith, the amount designated in the first item of said will, upon the terms and conditions therein named, under a Resolution of the City Council, Dec. 27, 1870	25,000 00		
the interest of the High Street Church	1,000 00	26,000 00	26,000 00
Received on account of IN- TEREST:			
From Commonwealth, for interest on State Tax paid before due	417 68	417 68	417 68
Received on account of TEMPORARY LOANS:			
From Merchants Nat'l Bank	88,000 00	88,000 00	
			88,000 00
Amount carried forward	• • • • • • • • • • • • • • • • • • • •		639,612 69

Amount brought forward			\$639,612 69
Received on account of DIS- ABLED SOLDIERS AND SAILORS, AND THEIR FAMILIES, AND FOR THE FAMILIES OF THE SLAIN:			
From Commonwealth, re-im-			
bursement State Aid, (in part) for 1871	30,400 00		
From Patrick Riley, for State	00,±00 00		
Aid re-imbursed	57 33		
From Francis J. Parker, (Over-	* 00		
draft)From Paul Dillingham, "	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
From D. W. Waterman, "	8 80		
From Edward Barry,	22 00		
From Oliver Plumado, "	9 33		
From Hiram G. Lathrop, "	4 00		
From James G. Cook, "	19 33		
From James R. Parsons, "	13 07		
From John F. Smith, "	14 12		
Energy Desille Deal's 4	48 00		
D D. A l. D'l //	$ \begin{array}{cccc} 16 & 00 \\ 39 & 00 \end{array} $		
From Patrick Kney, From Dennis Harrington,	76 00		
From Francis Sweeney,	51 00		
From Joseph F. Slater, "	58 54		
From Edward Jones, "	30 00		
From Daniel Cleary, "…	21 33		
From W. M. T. Flanders, "	41 60		
From David B. Barnard, "	$96 \ 06$		
From Thomas McCormick"	97 06		
From James Grooms, From Wm. H. Keniston,	71 33		
From Henry H. Maskell, "	$ \begin{array}{ccccccccccccccccccccccccccccccccccc$		
From John Cane, "	13 67		
From Michael Flynn, "	15 00		
From John L. Mellen, "	5 00		
_		31,333 64	
			31,333 64
Amount agmind famous			20 010 02
Amount carried forward	• • • • • • • • • •	••••	6670,946 33

Amount brought forward	• • • • • • •	•	\$670,946 33
Received on acc't of COR- PORATION TAX:			
From Commonwealth, for taxes on Corporation Stocks col- lected by the State, for 1870, From Commonwealth, for taxes on Corporation Stocks col-	2,083	03	
lected by the State, for 1871, (in part)	24,954	95	27,037 98
Received on acc't of WATER WORKS:			
From George H. Norman, for freight on pipe From George H. Norman, for one scale and proving press,	1,933	06	
for testing pipe	2,000	00	
labor	465	04	
payable semi-annually From Railroad National Bank, of Lowell, for 150 \$1,000 City of Lowell Water Loan Bonds, numbered from "401"	200,000	00	
to "550" inclusive From Railroad National Bank, of Lowell, for accrued interest from May 1, 1871 to July 19, 1871, on 150 \$1,000 City of Lowell Water Loan Bonds, numbered from "401" to	150,000	00	
" 550" inclusive	1,972	50	
Amounts carried forward	\$356,370	60	\$697,984 31

\$697,984 31

Amounts brought forward\$35	66,370	60
Received on acc't of WATER WORKS:		
From Mechanics' Savings Bank		
of Lowell, for 50 \$1,000 City		
of Lowell Water Loan Bonds,		
numbered from "551" to		
	0,000	00
From Mechanics' Savings Bank		
for accrued interest from		
May 1 to July 19, 1871, on 50 \$1,000 City of Lowell		
Water Loan Bonds, number-		
ed from "551" to "600"		
inclusive	657	50
'rom Railroad National Bank,		
for premium on sale of City		
of Lowell Water Loan		
Bonds, made to said Bank,		
and to the Mechanics' Savings Bank, July 19, 1871	50	00
From City Institution for Sav-	90	00
ings, for 100 \$1,000 City of		
Lowell Water Loan Bonds,		
numbered from "601" to		
"700" inclusive 10	0,000	00
From City Institution for Sav-		
ings, for accrued interest		
from May 1 to August 1, 1871, on 100 \$1,000 City of		
Lowell Water Loan Bonds,		
numbered from "601" to		
"700" inclusive	1,500	00
From Lowell Institution for		
Savings, interest at $3\frac{1}{4}$ per		
cent. per annum on daily		

F

F

F

F

F

F

Amounts carried forward.. \$510,872 34

1,176 84

1,117 40

balances in said Institution from May 1 to August 9, 1871.....

From Railroad National Bank, for interest at 3 per cent. per annum on daily balances in said Bank-from July 19 to Nov. 9, 1871.........

\$697,984 31

				-
Amounts brought forward	\$510,872 34	Į.	\$697,984	31
Received on acc't of WATER WORKS:				
From Merchants' National Bank of Lowell, for 100 \$1,000 City of Lowell Water Loan Bonds, numbered from "701" to "800" inclusive From Merchants' National Bank of Lowell, for accrued interest from November 1 to December 1, 1871, on 100 \$1,000 City of Lowell Water Loan Bonds, numbered from	100,000 00			ia
"701" to "800" inclusive	500 00	011 052 04		
		611,372 34	611,372	34
Received on account of HEALTH ACCOUNT:				
From Town of Dracut, for board and medical attendance of Mary Clancy, at Small Pox Hospital	17 14	17 14	1	
				14
		\$	1,309,373	79
EXPE	NDITUR	ES.		
The amount expended and ordered to be paid from the Treasury the past year, from December 31, 1870, to December 31, 1871, was These expenditures are chargeable to the following Appropriations or Accounts, viz:	Acc Too 11	\$	1,247,109	65
To Schools	\$89,760 14 21,117 92 49,932 94 11,919 15			

Amount carried forward... \$172,630 15

Amount brought forward \$172,630 1	5
Pannava 19 00¢ 7	A.
Paupers	
Fire Department 34,156 8	
Water Pipe 262 70	
Sewers and Drains 16,345 50	
Commons	
Printing and Advertising. 3,103 0	
Lighting Streets and Pub-	O
lie Buildings 15,650 0	4
Repairs of Public Build-	
ings $2,746$ 0	
City Library 2,359 9	2 .
Salaries 16,003 7	
City Debt 10,500 0	0
Interest on City Debt 31,102 4	6
	- 368,291 33
	
To Water Works 624,151 6	6
	- 624,151 66
	
To Disabled Soldiers, Sailors,	
and their families, &c 20,321 1	A
and their families, &c 20,521 1	- 20,321 14
	-20,321 14 $-20,321$ 14
	20,321 14
To Temporary Loan 88,000 0	0
	- 88,000 00
	88,000 00
(T) TT 1/1 A / 22 = 20 0	·
To Health Account 26,729 9	
	- 26,729 92
	
To Fire Alarm Telegraph 14,967 7	4
	- 14,967 74
	14,967 74
	11,001 11
To Rebuilding Pawtu't Bridge, 13,127 2	6
	- 13,127 26
	13,127 26
To the above add the amount	
paid for State Tax of 1871. 51,850 0	0
pard for State 1ax of 1071. 31,000 0	
	- 51,850 00
	51,850 00
Amount carried forward	\$1 907 499 05
zinoana carrica jorwara	••••••••••••

Amount brought forward	.\$1	,207,439	05
To the above add the County tax for 1871 21,108 07 21,108	07	21,108	07
To the above add the amount paid Commonwealth. National Bank Tax for 1871 18,562 53 ———————————————————————————————————	53		
Making the whole amount of expenditures for the year 1871	\$1 =	,247,109	65
The whole amount of receipts was\$1,309,373 The whole amount of expenditures was 1,247,109 Excess of receipts over expenditures	79 65	\$62,264	14
The balance in the Treasury, January 1st, 1871, was	79		
The amount actually paid from the Treasury for all purposes for the year ending December 31, 1871, was 1,248,230		\$327,517	52
The balance in the Treasury, as above, is There remains the amount of the unpaid Draft of December, 1871, amounting to			
Making the actual balance in the Treasury		\$284,776	92

The amount of the City Debt December 31st, 1870, was There has been paid this year Ten Thousand Five Hundred Dollars on the City Debt, which became due Novem-	707,124 63		
ber 1st, 1871, to the City Institution for Savings	10,500 00	696,624	63
The City Dcbt has been increased this year by the acceptance of Twenty-five Thousand Dollars as designated by will of Thomas Nesmith, under a Resolution of the City Council passed December 27th, 1870, said amount being received March 6th, 1871, with interest at the rate of six per cent. per annum, payable semi-annually	25,000 00	25,000	00
The City Debt has been increased this year by the acceptance of One Thousand Dollars, as designated by will of Thomas Nesmith, under a Resolution of the City Council passed December 27th, 1870, said amount being received April 10th, 1871, with interest at the rate of six per cent. per annum, payable semi-annually	1,000 00		
		\$722,624	63
LOWELL WATER LOAN	BONDS.		
Borrowed of Lowell Institution for Savings, for the term of twenty years, on the City's note dated May 1, 1871, bearing interest at the rate of six per cent. per annum, payable semi-annually	200,000 00		•
Amounts agreeied formend	2250,000,00	## CO 1	
Amounts carried forward \$	550,000 00	\$722,624	03

Amounts brought forward \$350,000 00 \$722,624 63
Sold Mechanics Savings Bank of Lowell, 50 \$1,000 City of Lowell Water Loan Bonds, numbered from "551" to "600" inclusive, payable November 1, 1890, bearing interest at the rate of six per cent. per annum, payable
semi-annually
semi-annually
semi-annually
The total amount of the City Debt Dec. 31, 1871, is \$1,322,624 63
Of the above amount \$522,624 63 belongs to the ordinary City Debt 522,624 63 There has been negotiated for the purpose
of construction of Water Works 800,000 00\$1,322,624 63

All of which is respectfully submitted.

GEORGE GARDNER,

Auditor of Accounts.

Appropriations and Expenditures.

The amount of the several Appropriations made by the City Council during the year 1871—the transfers from one Appropriation to another—the unexpended balances of the previous year—the amount received into the Treasury from other sources than Taxes, and the Expenditures in detail under each Appropriation, and the undrawn balances; also, the amount of City Debt—Debts due the City—Schedules of Real and Personal Property, &c.

SCHOOLS.

\$3,282 25

90,000 00

Balance undrawn January 1, 1871.....

Appropriated and assessed in 1871.....

appropriated and assessed in 1011		\$93,282	25
RECEIVED INTO THE TR	EASURY.		
Received of Commonwealth, being the			
City's proportion of the School Fund to January 1, 1871	1,823 64	1 000	CI
		1,823	64
From Frank E. Dodge, for tuition	40 00		
John H. Ames, for tuition	80 00		
Harriet V. Ames, for tuition	40 00		
Eugene S. Ferrin, for tuition	30 00		
George S. Butters, jr., for tuition	80 00		
Henry Lovett, for tuition	20 00		
Amounts carried forward	\$290 00	\$95,105	89

Amounts brought forward	\$290	00	\$95,105	89
From Edith A. Gove, for tuition	40	00		
Fannie Blanchard, for tuition	40			
Elizabeth C. Coburn, for tuition	80			
Othinel R. Park, for tuition,	24			
Eddie E. Chase, for tuition	40	_		
Roscoe L. Chase, for tuition	40			
G. A. H. Richardson, for tuition.	40			
Alvin A. Marshall, for tuition	$\frac{1}{24}$			
Laura G. Morse, for tuition	20			
Julia M. Walcott, for tuition	20			
Charles W. Lee, for tuition	10			
Mary L. Varnum, for tuition	10			
Jennie E. Clark, for tuition	80	00		
Frederick S. Hull, for tuition	20	00		
Louis P. Palmer, for tuition	3	00		
Philip P. Palmer, for tuition	10	00		
C. F. Jones, for tuition	30	00		
Eva B. Minter, for tuition	10	00		
C. Frank Coburn, for tuition	20	00		
Jennie M. Coburn, for tuition	20	00		
Alvaro E. Mossman, for tuition	20	00		
Joseph S. Blodgett, for tuition	10	00		
Hubert Bearce, for tuition	10			
William H. Burns, for tuition	10			
S. Elliott Wilson, for tuition	10	00		
Charles Morrill, for sale of books		~ -		
and stationery	1,183	27		
L. G. Howe, for old stoves and	0			
erasers	9	50	0.100	7-
			2,123	11
Received from Appropriation for Police,				
for mats, brooms, &c	14	13		
Received from Appropriation for Fire De-				
partment, for brooms, thermometer,				
&c	2	66		
Received from Appropriation for Repairs				
of Public Buildings, for broom		74		
Received from Appropriation for Health				
Account, for enphoard	6	00		
Received on account of Reserved Fund,				
for mats, brushes, brooms, &c	16	91		
			40	44
			\$97,270	10

EXPENDITURES.

Paid for INSTRUCTION:

HIGH SCHOOL.

To Charles C. Chase, Principal. Levi S. Burbank. James S. Russell. George F. Woodward. Mary A. Webster. Marietta Melvin.	\$2,200 00 1,779 00 1,700 00 18 00 650 00 650 00))))
Elizabeth McDaniels	650 00	
Harriet C. Hovey	650 00 650 00	
Charlotte B. Draper	030 00	\$8,947 00
Bartlett School.		
To Samuel Bement, Principal	1,700 00	•
Marianna B. Kent	500 00	
Mary E. Pike	500 00	
Sabra Wright	494 50	
Mary C. Gardner	500 00	
Cemantha R. Nichols	488 00	
Sophia P. Wetherbee	500 00	
Caroline E. Holt	500 00	
Georgianna F. VintonLucy J. Garrett	12 00	
July 9. Garrent	5 50	5,200 00
Colburn School.		
To Fidelia O. Dodge, Principal	225 00	
Perley Balch, Principal	1,275 00	
Elizabeth W. Frost	476 66	
Susan M. Andrews	500 00	
Sarah J. Crosby	462 50	
Emma C. Sawyer	500 00	
Arvilla L. ReaderElla S. Stanwood	312 50	
Ena S. Stanwood.	14 37	3,766 03
Amount carried forward	• • • • • • • • • • • • • • • • • • • •	\$17,913 03

Amount brought forward	• • • • • • • • • • • • •	\$17,913	03
Paid for INSTRUCTION:			
Edson School.			
To Ira Waldron, Principal. Helen M. Hunt. Maria R. Swan. Anna A. Sargent. Mary F. Dana. Mary F. Carleton Olive W. Beane. Mary A. Balch Helen C. Frye.	1,700 00 500 00 500 00 455 87 113 00 500 00 500 00 500 00 234 25		
Alice L. Frye	29 00	5,032	10
Franklin School.		0,002	14
To Stephen G. Bailey, Principal Sarah E. French Abbie F. Woodward Emma L. Crosby Luella A. Wardwell.	1,700 00 500 00 462 50 462 50 412 50	3,537	50
GREEN SCHOOL.			
To George F. Lawton, Principal Ida A. Hill Nettie E. Carleton Alice H. Thurston Ellen S. Burrill Emma L. Pevey	$\begin{array}{cccc} 1,700 & 00 \\ 500 & 00 \\ 500 & 00 \\ 462 & 50 \\ 500 & 00 \\ 500 & 00 \end{array}$		
Fidelia O. Dodge Ruth B. Bailey Ida Sheldon Annie E. Richardson Lilla J. Greenhalge	450 00 221 25 246 25 125 00 2 00	5,207	00
Mann School.		0,201	00
To Samuel A. Chase, Principal Nellie M. Gallagher Laura F. Howe Celestia P. Chase	1,700 00 500 00 500 00 500 00		
Julia M. Healey	412 50	3,612	50
Amount carried forward	• • • • • • • • • •	\$35,302	15

Amount brought forward	• • • • • • •	•••	\$35,302	1
Paid for INSTRUCTION:				
Moody School.				
To Joseph Peabody, Principal	1,700	00		
S. Elizabeth Dean	500			
Diana M. Huntoon	500			
Helen A. Haggett	500			
Laura J. Pinder	500	00		
Sarah E. Bailey	500	00		
Mary E. Way	500	00		
			4,700	00
VARNUM SCHOOL.				
To Daniel P. Galloupe, Principal	1,700	00		
Harriet Bradley	500			
Sarah F. Dillingham	406			
Sarah A. Bradley	500	00		
Clara A. Hanaford	462	50		
Emily A. Howe	6	00		
· ·			3,575	00
TEACHER OF PENMANSE	HIP.		•	
		0.0		
To Bertram Harrison	1,485	00		
			1,485	0(
Teacher of Vocal Mu	JSIC.			
To George F. Willey	1,500	00		
			1,500	00
PRIMARY SCHOOLS.			, -	
No. 1.—To Florence E. Davis	400	0.0		
Ella S. Stanwood	422			
Ella S. Stanwood	37	90	4.00	0.0
T 0 M TT (C YT 1)			460	36
No. 2.—To Kate S. Hamlin	400	83		
			400	88
No. 3.—To Abbie G. Watson	462	50		
			462	50
No. 4.—To Lucy F. Carleton	500	00		
			500	00
No. 5.—To Elizabeth A. Stearns	500	ΛΛ	- 000	
To Enizabeth A. Dicarns	500	00	500	00
			500	UU
Amount carried forward			\$10 QQE	04
	• • • • • • •	• • •	\$40,000	04

Amount brought forward			\$48,885	84
Paid for INSTRUCTION:				
No. 6.—To Abbie L. Davis	412	50	440	* A
No. 7.—To Mary J. Rice	500	00	412	50
No. 8.—To Martha A. Franklin	471	27	500	00
Emily A. Howe		38	400	C.F.
No. 9.—To Martha S. Williams	500	00	490	69
			500	00
No. 10.—To Martha A. Neal	500	00	500	00
No. 11—To Bella V. McAnulty	500	00	500	00
No. 12—To Eliza Merriam	500	00		
No. 13.—To Clara J. Nichols	322	91	500	00
Ella E. Gardner Cornelia M. Davis		00		
			400	91
No. 14.—To S. Augusta Haggett	412	50	412	50
No. 15.—To Elizabeth B. Merriam	462	50	462	50
No. 16.—To Marietta Hill	412	50	402	30
No. 17.—To Sarah C. Fiske	500	00	412	50
-			500	00
No. 18.—To Eliza Cowley	500	00	500	00
No. 19.—To Isabella E. Horner Lizzie N. Smith	136 133			
Susie J. Perkins				
	60			
Lilla J. Greenhalge	14		343	36
No. 20.—To M. Ella Wilkins	136	36		
Lizzie N. Smith	44	00		
Emily A. Howe	15	00		
Susie J. Perkins	158	25		
-		_	353	61
Amount carried forward			\$55,674	37

Amount brought forward		\$55.674 37
Paid for INSTRUCTION:		
No. 21.—To Sarah L. Gates Martha A. Paul	$482 \ 33 \ 15 \ 00$	
No. 22.—To Annie E. Richardson Ella E. Gardner	$\phantom{00000000000000000000000000000000000$	497 33
No. 23.—To Ella F. Perkins Lizzie N. Smith	352 58 18 00	447 00
Ella S. Stanwood No. 24.—To Ellen A. Bridge	500 00	436 58
No. 25.—To Aurelia L. Howe	500 00	500 00
No. 26.—To M. Jennie Geer Charlotte E. Brown	196 25 112 50	500 00
No. 27.—To Mary E. Drew	500 00	308 75 500 00
No. 28.—To Emily M. Warren	500 00	500 00
No. 29.—To Jennie F. Woodward	296 25	296 25
No. 30.—To Laura E. Hale	61 59 343 50	405 09
No. 31.—To Abby D. Gates	500 00	500 00
No. 32.—To Ellen F. Coughlan.	500 00	500 00
No. 33.—To Amanda M. Hadley	412 50	412 50
No. 34.—To Lizzie S. Lowe No. 35.—To Clara A. Emerson	$\frac{500\ 00}{462\ 50}$	500 00
No. 36.—To Mary A. Beard	500 00	462 50
Amount carried forward		\$62,940 37
		,

Amount brought forward		• • •	\$62,940	37
Paid for INSTRUCTION:				
No. 37.—To Lucretia A. Day	500	00	500	00
No. 38.—To Mary O. Kidder	500	00	500	
No. 39.—To Emma J. Alford	402	78	500	00
No. 40.—To Sarah E. Scales	500	00	402	78
		 .	500	00
No. 41.—To Clara L. Gates	320			
Ella E. Gardner	15	00		
Fannie M. Clark	72	00		
·			407	40
No. 42.—To Lizzie M. Hadley	412	50	412	50
N. 49 To Nollio M. Duourn	402	56		
No. 43.—To Nellie M. Brown				
Lilla J. Greenhalge	38	UU	440	= 0
			440	96
No. 44.—To Mary L. Hill	500	00		
			500	00
NT 45 50 - TH TM XXII-14-	504	00		
No. 45.—To Ellen M. White	50υ	UU	500	0.0
			500	00
No. 46.—To Ella A. Bailey	462	50		
v			462	50
N. O. Minerale W. Donaller	407	ro.		
No. 47.—To Miranda W. Bradley	427			
Emily A. Howe	44	00		
			471	52
No. 48.—To Marion A. Scott	412	50		
			412	50
N 40 To Monaello M Datton	375	00	,	
No. 49.—To Marcella M. Patten				
Emily A. Howe	48	75	400	
			423	75
No. 50.—To Elvira L. Currier	412	50		
•			412	50
No. 51.—To Mary J. Alger	462	50		
No. 51.—10 Mary 5. Alger	402	90	469	50
			462	90
No. 52.—To H. Maria Mansur	402	78		
			402	78
Amount carried forward	•••••	• • •	\$70,151	66

Amount brought forward	· • • • • • • • • • • • • • • • • • • •	\$70,151 66
Paid SUPERINTENDENT OF PUBLIC SCHOOLS and SECRETARY OF THE BOARD OF SCHOOL COMMITTEE:		
To Charles Morrill, Superintendent Charles Morrill, Secretary	2,000 00 200 00	2,200 00
*Paid for BUILDING FIRES, SWEEP- ING, CLEANING, etc., as per pay-rolls:		
To teachers and others	621 50	621 50
Paid for BOOKS and STATIONERY, and for BOOKS, etc., for Children of Indigent Parents:		
To Bacheller, Dumas & Co Boston & Lowell Railroad Parcel De-	18 25	
partment, for expressage on books	1 00	
Brewer & Tileston	15 77	
F. P. Coggeshall	559 31	
Ginn Brothers	7 38	
Joshua Merrill & Son Thompson, Bigelow & Brown	73 30 13 50	
Abel Whitney, (Ink)	$\frac{15}{15} \frac{50}{00}$	
• G. P. Whittier, Annual Cyclopedia for	10 00	
1870	5 75	
Woolworth, Ainsworth & Co	195 00	
C. C. Chase	13 38	
Nichols & Hall	1,051 91	
J. L. Hammett, ink wells	12 00	
Parmenter & Walker, crayons	48 00	
Boston & Lowell & Nashua & Lowell	2.5	•
R. R. Corporation, freight on chalk,	66	0.020.01
Я.	V-10. 1 70	2,030 21
Amount carried forward	• • • • • • • •	\$75,003 37

^{*}Of this amount \$115.50 was for building fires.

Amount brought forward		· · ·	\$75,003	37
Paid for PRINTING and ADVER- TISING, etc.:				
To Stone & Huse, for printing 4,500 copies School Committee's Report of 1870	553	60		
4,500 copies School Committee's Report of 1870 W. S. Simons, for distributing 4,000	63	00		
copies School Committee's Report of 1870 Stone & Huse, for printing and adver-	20	00		9
tising Brown & Chase, for printing	318 107			
S. T. Barnes, for printing Knapp & Morey, for printing and advertising	109			
Marden & Rowell, for printing and advertising	125			
etc	4	72	1,306	87
Paid for EVENING SCHOOLS:				
To Perley Balch, for services as teacher. Maria R. Swan, for services as teacher, Ella S. Stanwood, for services as	105 43			
teacher	34			
Emily A. Howe, for services as teacher Mary P. White, for services as teacher, Ellen E. Merrihew, for services as	26	00		•
teacher	25			
M. Jennic Geer, for services as teacher,	$\begin{array}{c} 36 \\ 26 \end{array}$			
Ella E. Gardner, for services as teacher	35	00		
teacher	43	75		
teacher	34			
teacher	26	00		
Amounts carried forward	\$469	75	\$76,310	24

Amounts brought forward	\$469	75	\$76,310 24
Paid for EVENING SCHOOLS:			
To Abbie R. Worthley, for services as			
teacher	41	50	
Ida M. Wilson, for services as teacher,		00	
Olive W. Beane, for services as teacher,		75	
Cornelia Davis, for services as teacher,		00	
Mary E. Way, for services as teacher		50	
Anna C. Way, for services as teacher,		00	
Helen A. Haggett, for services as	00	00	
	25	60	
teacher			
Ellen A. Bridge, for services as teacher,	92	00	
Elvira L. Currier, for services as	20	0.0	
teacher	29	00	
Clara J. Nichols, for services as			
teacher	29		
Abbie Gilman, for services as teacher,	16	00	
Diana M. Huntoon, for services as			
teacher	52	50	
Belle T. Vinall, for services as teacher,	35	00	
Ella J. Hale, for services as teacher,	35	00	
Cornelia M. Davis, for services as			
teacher	32	00	
Leora L. Upton, for services as teacher,		00	
Helen C. Frye, for services as teacher,		00	
Annie C. Robinson, for services as	10	v v	
teacher	10	00	
	12	UU	
Albert W. Danforth, for services as	10	00	*
teacher	12	0.0	
Lowell Missionary Society, for coal,			
books, &c	100		
George A. Smith, for services as janitor		33	
Arthur Draper, for services as janitor,	13	00	
B. G. Mooney, for services as police			
officer	18	00	
George F. Lawton, for ink	3	00	
Joshua Merrill & Son, for books and			
stationery	8	80	
			1,224 01
			1,221 01
Paid for SUNDRIES:			
To Charles Morrill, cash paid for "Carney			
Medals," premium, postage stamps			
and expressage	20	04	
and orbicongo.		04	
Amounts carried forward	620	04	\$77 594 QE
Linoanos curricu jorauru	\$30	0,4	\$77,534 25

Amounts brought forward	\$36	04	\$77,534	25
Paid for SUNDRIES:				
To Lowell Gas Light Company, for gas				
for Evening Schools, etc	142	68		
lin School-house)	32	00		
num School-house)	18	00		
(Varnum School-house)	6	00		
American Tablet Company, for black- board surface	12	80		
D. M. Prescott & Co., for mason work,	51	67		
George Thatcher, for repairing clocks, bells, &c	63	-		
Isaac H. Libbey, for repairing clocks,		00		
T. H. Curtis, for keys and repairs H. R. Barker & Co., for steam-pipe,	1	10		
couplings, gas-fixtures, labor, etc	350	76		
J. W. Proctor, for pipe, labor, etc Thomas P. Glover & Co., for repairing	69	64		
pump-irons, chisels, &c	1	95		
William Dobbins, for eastings, bolts	22	50		
and labor	22	<i>5</i> 0		
nails, fire-rake, &c		95		
Cole & Nichols, for castings	26			
John Butcher, for iron		37		
A. H. & J. H. Abbott, for bolt and key,	1	25		
James Quinn, for repairing iron bar C. B. Coburn & Co., for brushes, fire-		50		
brick, dusters, mop-handles, oil, &c.	102	89		
Jonathan Kendall, for varnish, spirits				
turpentine, shellac, alcohol, paint,	44	95		
&c	44	20		
ets, &c	8	70		
Adams & Co., for mats, chairs, dusters,				
lamp-glasses, &c	284	65		
Benner Brothers, for mats, carpet,				
enamelled cloth, &c	107			
F. L. Wood, for re-seating chairs		65		
Frank J. Libby, for re-seating chairs	6	60		
G. N. Trowbridge & Son, for turning circles		75		
Amounts carried forward				
	01 400	OF	\$77,534	OF

Amounts brought forward	\$1,429	05	\$77,534	25
Paid for SUNDRIES:				
To S. G. Mack & Co., for repairing stove, dust-pan, wash-basins, lead-pipe,				
&c	66	24		
&c	35	76		
Daniel Cushing & Co., for tin cups	6	00		
T. Costello & Co., for stoves, repairs, labor, &c	135	70		
J. W. Nash & Co., for repairing stove,	100	• •		
coal-hod, &c	29	79		
H. H. Wilder & Co., for zinc and keys, Samuel Beck, for stoves, zinc, pipe,	2	44		
repairs, labor, &c	49	72		
Jacob Rogers & Co., for hardware	142			
Fielding & Bartlett, for hardware	12	82		
Charles E. Adams, for hardware	1	76		
Irving A. Foote, for tuning and repair-				
ing pianos	34	00		
H. & A. Whitney, for lumber	26	01		
Howes & Burnham, for lumber	21	94		
Davis & Melendy, for lumber	24	50		
M. C. Pratt & Co, for mouldings, saw-				
ing, planing, &c	3	56		
Milton Aldrich, for repairing piano				
legs		17		
John C. Bennett, for rubber moulding,		50		
Amos Colby, for pumps and repairs		00		
J. E. Griffin, for repairing pump	3	00		
Peter Quinn, for use of pump on Salem Street for one year, ending July 1,				
1871	2	00		
Martha E. Wilkins and others, for use	9	00		
of pump and water from well on				
Race Street, ending June, 1871, (2				
years, at \$1 per year, as per bar-				
gain 1863)	2	00		
Carleton & Hovey, for materials used	_			
experimenting with philosophical				
apparatus (High School)	20	25		
F. & E. Bailey, for materials used ex-				
perimenting with philosophical ap-				
paratus (High School), and ther-				
mometers	13	29	-	
Amounts amound for and	#9.191	0.5		
Amounts carried forward	\$2,131	33	\$77,534	25

Amounts brought forward	\$2.131	35	\$77,534	25
Paid for SUNDRIES:	<i>\$2,101</i>	00	ψ·••;ου 1	20
Taid for SONDINES.				
To C. P. Talbot & Co., for oxalic acid Buttrick & Co., for pails, matches,		40		
brooms, salt and soap	40	82		
L. J. Nutting & Co., for brooms		65		
Clough & Boynton, for spittoon		25		
French & Puffer, for lantern globes	-	77		
Josiah Gates & Sons, for sprinkler		75		
Whiting & Co., for leather	9	40		
Warren C. Crosby, for pipe, cement	4	40		
	c	85		
and labor (High School)	O	00	*	
George F. Willey, for lumber (for		00		
stage, High School)	3	98		
C. W. Rugg, for rent and cartage of	4.0			
piano (High School)	18	00		
C. C. Chase, for cash paid for use of				
bunting, seals for diplomas, broken				
vase, &c., (High School)	6	50		
Bertram Harrison, for filling diplomas				
(High School)	10	00		
L. S. Burbank, for eash paid out for				
botanical garden (High School)	6	23		
James McGill, for ribbons for diplo-				
mas (High School)	12	76		
Job Moody, for cash paid cleaning				
High School House	19	00		
C. C. Chase, for cash paid cleaning				
High School House	13	00		
T. P. Woodman, for ode for dedication				
of Green School House	12	00		
Conant & Co., for trucking piano to		•		
and from Green School House	9	00		
Charles E. Campbell, for labor, Green	· ·	•		
School, building fires	19	25		
Theodore Fillmore, for sweeping and	10	20		
cleaning Green School House	18	50		
Henry C. Church, for mop waste		27		
	10	4		
Proprietors of Locks and Canals on				
Merrimack river, for use of reser-	71	25		
voir water at Green School-house.	11	20		
Daniel P. Galloupe, for cleaning Var-	0	50		
num School-house	9	90		
John H. Nichols, cash paid out clean-				
ing, repairing, and putting down	^			
carpet in School Committee room.	3	75		
Amounts carried forward	\$2,493	23	\$77,534	25
	7-,100		****	70

Amount brought forward	\$2,493	23	\$77,534	25
Paid for SUNDRIES:				
To Ellen McQuade, for soap	1	20		
hand mechanical drawing S. K. Hutchinson, for estimates and plans for the enlargement of School-	25	00		
house on Lawrence Street	30	00		
Nicholas P. Brown, for cleaning vaults,		50		
Micholas I. Diown, for cleaning vactos,			2,564	93
To amount paid appropriation for Health Account, for stove, pails, lantern,			2,001	
&c	33	25	33	25
*To amount credited Reserved Fund, for			00	20
expense of heating High and Green School-houses	949	63	949	63
†To amount of Superintendent of Streets' bills for the year 1871	5,052	93	010	
·			5,052	93
‡To amount of Superintendent of Public Buildings' bills for the year 1871	3,625	15		
			3,625	15
W1 1 24 6 1051			#00 FC0	1.4
Whole expenditure for 1871Balance undrawn, January 1, 1872			\$89,760 7,509	
			\$97,270	10

^{*\$774.63} was for fuel, and \$175.00 was for taking charge of heating.

tOf the Superintendent of Streets' bills, the most of it was for fuel.

SCHOOL-HOUSES.

Balance undrawn January 1, 1871 Appropriated and assessed in 1871	\$3,335 81 18,000 00	\$21,335	81
RECEIPTS.			
*Received into the Treasury from various sources	1,101 85		
†Received from the Appropriation for Paupers, for nails, lumber, &c †Received from the Appropriation for Fire	26 63		
Department, for lumber, paint, glass, &c	. 110 04		
Roads and Bridges, for lumber, nails and paint †Received from the Appropriation for	23 '82		
Public Buildings, for glass	1 12	1,263	46
		\$22,599	27
EXPENDITUR	ES.		
Paid for MATERIALS and LABOR FOR THE NEW GREEN SCHOOL-HOUSE, ON MERRI- MACK STREET:			
To William H. Wiggin, for labor and materials (as per resolution)	431 58		

\$431 58

Amount carried forward.....

^{*}See page 8.

[†]See expenditures for those Appropriations.

Amount brought forward	. \$431	58		
Paid for MATERIALS and LABOR FOR THE NEW GREEN SCHOOL-HOUSE, ON MERRI- MACK STREET:				
To John F. McEvoy, cash paid for stamp				
on Osgood's deed of easement of land, and recording	1	65		
Brown & Carter, for oil and labor	129			
Daniel Cushing & Co., for galvanized	. ~ .			
iron open pediment	150	00		
H. R. Barker & Co., for steam fixtures	99	00		
and labor	281			
H. A. Hildreth, for wire-cloth	5 5	22		
Chamberlin & Jockow, for hinges, hooks, &c	19	18		
E. A. & A. T. Smith, for concrete walk,	110			
O. H. P. & G. W. Trask, for stone and	901	F0		
labor Adams & Co., for desk, mats, &c	$\begin{array}{c} 391 \\ 86 \end{array}$			
J. L. Hammett, for slate	. 14			
C. B. Coburn & Co., for hemp, cord				
and glue	1	86	11,706	3 07
Paid for LAND:			<u> </u>	01
*To Hocum Hosford, for 8595.58 square				
feet of land corner of Lawrence and	0.1.0	0.0		
Ames Streets, as per deed *Theophilus C. Blaisdell, for 4344.87	2,148	20		
square feet of land on Central St.,				
as per deed	1,086	22	0 - 0 -	
* <u>-</u>		_	.3,234	42
Paid for SUNDRIES:				
To Merrimack Manufacturing Company,				
rent of School House No. 12	94 (
Howes & Burnham, for lumber	2,271	73		
Amounts carried forward	\$2,365	73	\$4,940	49

 $[\]ddag$ Add to this amount \$104.106.54, expended to January 1, 1871, makes the total cost of land and constructing the building \$105.812.61.

^{*} For cost of building School-houses on above lots see Superintendent of Public Buildings' report for 1871.

The state of the s				
Amounts brought forward	\$2,36	5 73	\$4,940	49
Paid for SUNDRIES:				
To A. L. Brooks & Co., for lumber and				
sawing	734	. 78		
H. & A. Whitney, for lumber		13		
Norcross & Saunders, for lumber		41		
Davis & Melendy, for lumber		54		
M. C. Pratt & Co., for lumber, labor,				
planing, &c	467	54		
Crosby Furniture Co., for dressing				
desk tops	4	37		
A. Bacheller & Co., for mouldings, use				
of saw and labor	16	77		
Griffin & Stevens, for lumber and la-				
bor		64		
J. G. Peabody, for sashes and doors,	54	80		
William Kelley, for doors, sashes,	0.50	0.0		
moulding, &c	253			
John Pettingell, for chimney cap		50		
Fielding & Bartlett, for hardware	178	26		
Chase, Sargent & Shattuck, for hard-	190	01		
Ware	330	81		
Jacob Rogers & Co., for hardware Charles E. Adams, for hardware		56		
John Butcher, for iron		49		
American Bolt Co., for bolts, washers,	11	10		
&c	21	95		
Chamberlin & Jockow, for bolts,				
hinges, &c	95	44		
Cole & Nichols, for castings	430			
Lowell Machine Shop, for castings	5	10		
U. S. Ventilation Co., for ventilators.	200	00		
William Dobbins, for blacksmith work,	9	65		
H. A. Hildreth, for wire cloth	23	78		
Thomas P. Glover & Co., for iron				
work	23	89		
American Tablet Co., for blackboard				
surface	195	00		
Fiske & Spalding, for graining, paint,				
brushes, glass, alcohol, labor, &c.	366	03		
Brown & Carter, for graining, labor,	100	0.1		
&c Abnow Kittnadess for toward paper and	123	01		
Abner Kittredge, for tarred paper and	10	15		
labor,	10	15		
Amounts carried forward	\$7,804	88	\$4,940	40
AIMOUNIOS CUITICU JOTUUTUS	\$1,004	00	Φ±,040	40

Amounts brought forward	\$7,804	1. 88	\$4,940 49
	# - ,		W-70 10 10
Paid for SUNDRIES:			
To C. B. Coburn & Co., for glass, varnish,			
fire bricks, linseed oil, putty, white			
lead, &c	340	79	
Jonathan Kendall, for oil, white lead, alcohol, glass, putty, &c	176	22	
William Waugh, for slate, zinc, labor,	110	99	
&c	32	80	
Robert Goulding, for slate, zinc, nails,			
labor, &c	104		
Charles H. Philbrick, for concrete walk,		00	
Whithed & Tallant, for concrete walk,	35	53	
E. A. & A. T. Smith, for repairing concrete walk	1	00	
John H. McAlvin, for cash paid Reg-	1	00	
ister of Deeds for recording "W.			
H. Lane" to City, and "E. W. Hill"			
to City	1	30	
John F. McEvoy, for examining titles			
of land and recording deeds	12	35	
T. Costello & Co., for tin, solder, lead			
pipe and labor	8	16	
N. J. Wier & Co., for stove, stove-	or	1.77	
pipe, &c		17	
Samuel Beck, for lead pipe, labor, &c. S. G. Mack & Co., for registers,	10	90	
stoves, ventilator, iron fence, &c.	568	98	
Josiah Russell, for mason work		25	
Luther Kittredge & Son, for stone			
work	691	66	
Runels & Davis, for stone work	75	16	
A. W. Bailey, for making cellar, &c	380	00	
Alanson Nichols, for brick, cement	0.0	0.1	
and sand	86	64	
house, labor, &c	281	50	
Alphonso Merrill, for teaming lumber,		50	
John White, for teaming boards		50	
O. A. Simpson, for teaming	36	00	
William Roberts, for teaming	18	75	
Henry C. Church, for draughting paper,		50	
Marden & Rowell, for advertising sale			
of school-house	2	75 50	
W. S. Simons, for posting bills		50	
Amounts carried forward	\$10,820	73	\$4,940 49
	,		# 1,0 10 IV

Amounts brought forward	\$10,820	73	\$4,940 49
Paid for SUNDRIES:			
To E. B. Patch, for selling house, (Var-			
num school yard)	7	25	
Merriam, Holden & Co., for school-chairs	~ 90	00	•
F. Frye & Co., for brick, cement, labor,	5 0	0.5	
&c	50		
Rollins & Sargent, for mason work	401	32	
D. M. Prescott & Co., for mason work,	662	24	
Bennett & Moulton, for mason work	70		
· · · · · · · · · · · · · · · · · · ·			
T. A. Sanborn, for mason work		00	
C. H. Kelley, for whitewashing	5	62	
			12,110 18
To amount of Superintendent of Public			,
Buildings' bills for the year	4,067	25	
Duridings only for the year	± ,001	40	4 007 05
			4,067 25
Whole expenditure for the year			21,117 92
Balance undrawn, January 1, 1872			1,481 35
,			
			\$22,599 27
			Ψ22,000 21

ROADS AND BRIDGES.

\$10.876 77

\$907 91 \$55,876 77

Balance undrawn January 1, 1871.....

 $Amounts\ carried\ forward\dots\dots\dots$

Appropriated and assessed in 1871..... 45,000 00 ---- \$55,876 77 RECEIPTS. Received for SIDEWALK ASSESS-MENTS, MATERIALS, and other STREET ACCOUNTS: IN JANUARY. Of Edward P. Woods, for sidewalk assess-102 49 D. G. Skillings, for sidewalk assess-45 77 Nathan Clough, for sidewalk assess-51 41 B. F. Simpson, for sidewalk assessment, 119 73Charles Hovey, for sidewalk assessment..... 164 74 John E. Fowler, for sidewalk assessment..... 23 54 Luther Richards, for sled...... 61 50 Addison Putnam, for concrete..... 107 05 Sylvanus Bartlett, for sidewalk assess-52 86 John Waugh, for sidewalk assessment 32 85 Daniel P. Gage, for sidewalk assess-72 14Stillman Byam, for sidewalk assessment..... 42 97 William Langley, for sidewalk assess-30 86

Amounts brought forward	\$907	91	\$55,876	77
Received for SIDEWALK ASSESS-			•	
MENTS, MATERIALS, and other STREET ACCOUNTS:				
Of Appleton Company, for sidewalk assess-				
ment	83	39		
sessment	39	74		
sessment	76	30		
Joseph A. Patten, for sidewalk assessment	26	68		
John Cosgrove, for sidewalk assessment	33	11	•	
John E. Fowler, Jr., for sidewalk assessment	23	54		
David Perham, for sidewalk assessment	67	76		
Bridget Berne, for sidewalk assess-		02		
ment Simeon D. York, for sidewalk assess-				
ment	111	99		
Ment	31	41		
ment		05		
Daniel Gage, for sidewalk assessment,	243			
W. D. Butler, for stone		00		
F. & H. Caryl, for stone		$\begin{array}{c} 75 \\ 00 \end{array}$		
John Holt, for stone O. H. P. Trask, for stone		00		
John L. Moulton, for stone		00		
John Dougherty, for stone		75		
David Atwood, for stone		00		
James Meadowcroft, for stone	18	00		
Lowell Machine Shop, for old iron	40	12		
William Bascom, for labor	3	00		
-		_	1,921	78
In February.				
Of Luther Richards, for wood, mortar	0.0	00		
stone and labor Luther Richards, for stone		00		
Amounts carried forward	\$134	00	\$57,798	55

Amounts brought forward	\$134	00	\$57,798	55
Received for SIDEWALK ASSESS- MENTS, MATERIALS, and other STREET ACCOUNTS:				
Michael Doherty, for sidewalk assessment	126	28		
George H. Wellman, for sidewalk assessment	212	25		
ment	86	80		
ment		64 47		
			724	44
In March.	,		7	
Of Heirs of John Nesmith, for concrete	294	58		
Heirs of John Nesmith, for stone	46	69		
M. G. Perkins, for stone	65	00		
Luther Richards, for wood, rough stone				
and labor	62	00		
Stephen Castles, for sidewalk assess-	9.0	51		
Daniel Bryant, for sidewalk assess-	96	51		
ment	53	02		
N. P. Favor, for sidewalk assessment,	109			
H. L. Williams, for sidewalk assess-	100			
ment	52	47		
			720	15
In April.				
Of Heirs of John Sheldon, for sidewalk				
assessment	68	37		
Anson Lamere, for sidewalk assess-	00	•		
ment	62	05		
Luther Richards, for stone	121	50	251	99
			201	U L
In May.				
Of T. H. Sweetser, for street scrapings	3	00		
Z. Goward, for sidewalk assessment	55			
Amounts carried forward	\$58	35	\$59,495	06

Amounts brought forward	\$58	35	\$59,495	06
Received for SIDEWALK ASSESS- MENTS, MATERIALS, and other STREET ACCOUNTS:				
Of S. K. Dexter, for mortar stone	36	00		
T. H. Elliott, for mortar stone		20		
David Dillon, for mortar stone Luther Richards, for street scrapings	12	00		
and mortar stone	100	00		
			231	55
In June.				
Of Michael Doyle, for mortar stone	17	25		
Charles Lee, for mortar stone		00		
Charles Lee, for loam	19	38		
George S. Butters, for horse		00		
Luther Kittredge, for street scrapings. Michael Doherty, for labor, brick and	50	00		
iron pipe	49	24		
James Slavin, for mortar stone	268	50		
John Hadley, for sidewalk assessment, Lowell Hosiery Co., for sidewalk as-	66	7 5		
sessment	135	16	720	90
In July.			120	20
Of F & H Canyl for moutan stone	109	75		
Of F. & H. Caryl, for mortar stone B. G. Mooney, for mortar stone	$\begin{array}{c} 123 \\ 25 \end{array}$			
Robert Park, for mortar stone	$\begin{array}{c} 23 \\ 272 \end{array}$			
Samuel Convers, for mortar stone	12			
Wright, Bird & Co., for mortar stone.		50		
Patrick Ducy, for mortar stone	21	00		
H. A. Hildreth, for sidewalk assess-				
ment	307	48		
George H. Norman, for labor	204			
Patrick Cummiskey, for coal	22	00		
Luther Richards, for wood, stone and street scrapings	85	00		
· · · · · · · · · · · · · · · · · · ·			1,086	84
In August.				
Of Luther Richards, for coal	55	00		
Amounts carried forward	\$55	00	\$61,533	73

Amounts brought forward	\$55 00	\$61,533 73
Received for SIDEWALK ASSESS- MENTS, MATERIALS, and other STREET ACCOUNTS:		
Of Harrison Flint, for sidewalk assess-		
ment	41 98	
J. & W. Hovey, for sidewalk assessment,	49 47	
Nathaniel Staples, for mortar stone	143 00	289 45
		200 40
In September.		
Of Lowell Manufacturing Co., for mortar		
stone	221 00	
J. P. Folsom, for mortar stone	27 00	
John McGuire, for mortar stone	85 25	
John O'Hearn, for mortar stone	$15 75 \\ 301 00$	
James Slavin, for mortar stone Patrick Keyes, for mortar stone	12 00	
Ira Hartwell, for mortar stone	6 00	
S. N. Proctor, for mortar stone	6 00	
Patrick Lynch, for mortar stone	154 00	
Heirs of Thomas Nesmith, for mortar		
stone	46 68	
Heirs of Joshua Bennett, for sidewalk		
assessment	46 82	
Robert Read, for sidewalk assessment,	90 72	
Luther Holt, for labor	18 00	
Lowell Horse Railroad Co., for labor.	147 00	
S. F. Gladwin, for brick and labor	56 40	
Lowell Hosiery Co., for edgestone and	169 00	
concrete	163 80	1,397 42
In October.		
Of Lowell Gas Light Co., for concrete	100 10	
Robert Park, for stone	888 00	
Wamesit Steam Mills, for labor	6 00	
Joshua W. Shores, for sidewalk assess-		
ment	25 6 8	
ment	18 06	
Heirs of Joshua Bennett, for sidewalk	10 00	0
assessment	25 21	
-		
Amounts carried forward	\$1,063 05	\$63,220 60
	,	, ,

Amounts brought forward	\$1,063	05	\$63,220	60
Received for SIDEWALK ASSESS- MENTS, MATERIALS, and other STREET ACCOUNTS:				
Of Hubbard Wilson, for sidewalk assess-				
ment	14	67		
ment	58	29		
Jane Wilson, for sidewalk assessment, William Shepard, for sidewalk assess-	15	52		
ment	84	24		
sessment	24	44		
ment	59	81		
Moses B. Ames, for sidewalk assessment	. 28	11		
I. N. Fitts, for sidewalk assessment.		23		
Ezra Morrill, for sidewalk assessment, William Reed, for freight on paving	64			
stones	410	04	6	
A. L. Brooks, for edgestone and eon- crete	124	81		
Luther Richards, for coal, mortar stone and street scrapings	50	00		
			2,072	96
In November.				
Of Henry Read, for sidewalk assessment, Patrick Lynch, for sidewalk assess-	53	43		
ment	134	93		
ment	48	07		
ment	58	00		
ment	68	57		
Jesse Huse, for sidewalk assessment. George Hobson, for sidewalk assess-	47			
ment	63	70		
sessment	49	0.0		
A. L. Brooks, for sidewalk assessment,	176			
Amounts carried forward	\$701	20	\$65,293	56

Amounts brought forward	. \$701	20	\$65,293	56
Received for SIDEWALK ASSESS- MENTS, MATERIALS, and other STREET ACCOUNTS:				
Mary McCusker, for sidewalk assess-				
ment	33	72		
James Slavin, for mortar stone	240			
Cyrus Blood, for edgestone		25		
S. T. Brown, for edgestone E. A. & A. T. Smith, for labor, edge-	90	62		
stone and mortar stone	227	87		
Samuel Fletcher, for freight on paving		٠.		
stones	172	21		
County of Middlesex, for labor and			4	
street scrapings	20	50		
. 0			1,584	37
. T. D.			,	
• In December.				
Of L. G. Howe, for labor and stone	28	00		
Moses C. Page, for stone	$\frac{20}{21}$			
Robert Park, for stone	201			
A. Ambrose, for stone		00		
B. Thornton, for stone	15			
James Slavin, for stone	75	00		
Lowell Manufacturing Co., for stone.	113	00		
Massachusetts and Prescott Mills, for				
stone	24	75		
Jonathan Johnson, for stone	42	25		
E. B. Patch, for labor	3	00		
Proprietors of Locks and Canals on				
Merrimack River, for labor	119	00		
Luther Richards, for labor, wood,				
stone, old plank and street scrap-				
ings	134	80		
George B. Alexander, for sidewalk as-				
sessment	46	14		
Cyrus P. Barclay, for sidewalk assess-	150	4.0		
ment	158			
Martin Smith, for sidewalk assessment,	27	87		
Patrick Goulding, for sidewalk assessment	9	00		
T. F. Morris, for sidewalk assessment,	54	00		
S. J. Freeman, for sidewalk assessment	50 50			
Benjamin Lawrence for sidewalk assess	30	00		
ment	54	17		
		11		
Amounts carried forward	\$1.186	95	\$66,877	93
J	Ψ1,100	00	400,011	00

Amounts brought forward\$1,186 95	\$66,877 93
Received for SIDEWALK ASSESS- MENTS, MATERIALS, and other STREET ACCOUNTS:	
Charles Callahan, for sidewalk assess-	
ment 30 40	
Samuel Page, for sidewalk assessment, 27 21	
Dockham & Carter, for labor and use	
of engine and stone-crusher 171 00	
Gerry Wilson, for edgestone 32 27	
Ward Charters, for edgestone 36 54	
John G. Ham, for edgestone 20 58	
B. F. Butler, for edgestone and con-	
crete 96 40	
H. W. B. Wightman, for edgestone and	•
concrete 120 21	
A. Bachelder & Co., for concrete 71 60	
	1,793 16
	# 20. 251. 00
	\$68,671 09

EXPENDITURES.

Paid for LABOR, as per monthly payrolls:

In January	\$1,957	06		
February	1,400			
March	2,015			
April	2,097	15		
May	2,853			
June	2,828	42		
July	3,211	11		
August	3,349	44		
September	2,673	31		
October · · · · · · · · · · · · · · · · · · ·	2,320	20		
November	2,091	11		
December	969	16		
			27,765	34
		-		
Amount carried forward			\$27,765	34

Amount brought forward		••	\$27,765	34
Paid for HAY, GRAIN, &c.:				
To Wm. E. Livingston, for grain and meal, Samuel N. Wood & Son, for grain and	442	66		
mealStiles, Rogers & Co., for grain and	561	19		
meal	554	23		
meal	623	23		
Sydney Davis, for straw	171			
L. J. Richards, for hay	146			
Luther Richards, for hay and straw		00		
Milton Fox, for carrots	185			
D. C. Perham, for hay		18		
William McFarlin, for hay		40		
Elijah Corliss, for hay		30	*	
Appropriation for Paupers, for hay	$\begin{array}{c} 652 \\ 350 \end{array}$			
Appropriation for Commons, for grass,	550	00	3,887	77.4
Paid for LUMBER, STONE, BRICK, &c.:				
To H. & A. Whitney, for lumber	238	12		
Howes & Burnham, for lumber	665	26		
A. L. Brooks & Co., for lumber Davis & Melendy, for lumber and saw-	8	01		
ing		76		
Blodgett & Curry, for lumber M. C. Pratt & Co., for mouldings,	63	00		
lumber, sawing, planing, &c		79		
Gray & Fletcher, for edgestone	1,670			
Samuel Fletcher, for edgestone Samuel Fletcher, for block paving	622	49		
(Market Street)	1,219	18		
ket Street)	6,931	33		
William Reed, for curbstone	71			•
S. T. Wright, for edgestone	352			
J. C. Ayer & Co., for stone and brick, George S. Cheney, for cutting edge-	14			
stone	54			
Elisha Davis, for brick		00		
Cyrus Latham, for brick		50		
William Seaver, for brick	6	24		
Amounts carried forward	\$12,009	32	\$31,653	08

Amounts brought forward	\$12,009	32	\$31,653	08
* · · ·	Ψ12,000	-	4.02,000	
Paid for LUMBER, STONE, BRICK,			2	
&c.:				
To Wm. E. Livingston, for culled brick	54	60		
Boston & Lowell & Nashua & Lowell	04	00		
Railroad Corporation, for freight	770	40		
on stone	778	42		
E. A. & A. T. Smith, for concrete				
pavement and brick	2,683	49		
Whithed & Tallant, for concrete pave-				
ment	1,093	41		
Charles H. Philbrick, for concrete				
pavement	237	60		
Charles S. Graves, for gravel	8	25		
- , , ,			16,865	09
D '1 e DITTI			10,000	0.0
Paid for FUEL:				
To O. D. Witherell, for coal (732 tons)	4,656	59		
Boston & Lowell & Nashua & Lowell	,			
R. R. Companies, freight on coal	796	90		
A. & E. Spalding, for wood	518			
S. Bowers, for wood	266			
S. T. Wright, for wood	153			
George Wright, for wood		00		
Luther Blodgett, for wood	290			
Luther Richards, for wood	66			
Alanson Nichols, for coal, &c	95	83		
			6,933	19
Paid for BLACKSMITH WORK, CAR-				
RIAGES, REPAIRING CAR-				
RIAGES, HARNESSES, IRON,				
&c.:	•			
To John Butcher, for iron, steel, borax,				
&c	616			
American Bolt Co. for bolts, &c	45	30		
Chamberlin & Jockow, for iron work.	20	05		
Cole & Nichols, for castings	1	64		
William Dobbins, for repairing stone-				
crusher · · · · · · · · · · · · · · · · · · ·	67	71		
Thomas P. Glover, for iron work	3	25		
B. I. Peabody, for hubs, spokes, &c	34			
Boston & Lowell & Nashua & Lowell		~~		
Railroad Companies, for freight on				
hubs and spokes		70		
S. L. Butman, for repairing harnesses,		10		
	959	9.0		
&c	252	00		
Amounts assured famous	@1 010	1.0	DEE 151	0.0
Amounts carried forward	φ1,U42	10	\$55,451	36

Amounts brought forward	\$1,042	13	\$55,451	36
Paid for BLACKSMITH WORK, CAR- RIAGES, REPAIRING CAR- RIAGES, HARNESSES, IRON, &c.:	*.			
To J. A. Brabrook, for harnesses and re-				
pairs	. 41	20		
and harnesses	11	75		۰
ing carts Wright, Bird & Co., for repairing	70	90		
wagons	50	95		
Lyman Webster, for rims and spokes,	4	13		
Lewis Gilson, for spokes		50		
James Burns, for one pair bellows	10			
David Lane, for saw arbor Wm. P. Brazer & Co., for horse blank-	15	61		
ets	30	00		
H. R. Barker & Co., for repairs on	30	00		
stone-crusher, pipe, &c	133	31		
C. T. Haskell, for filing saws	9	55		
J. H. Haskell, for filing saws	5	20		
Eliphalet Hills, for turning yokes, saw-	0	0.0		
ing, &c	9	30		
ing, &c ing, saw-	59	21		
			1,493	74
Paid SUPERINTENDENT OF STREETS AND CIVIL ENGINEER:				
To Luther Richards, Superintendent of				
Streets, (salary)	1,500	00		
Richard W. Baker, Civil Engineer,	,			
(salary)	1,500	00	0.000	00
			3,000	00
Paid for DAMAGES ON ORDERS FROM THE COMMITTEE ON CLAIMS, &c.:				
To Peter Crudden, for land taken to straighten Union Street, under a				
Resolution of the City Council				
passed June 27, 1871	867			
Robert Bateman, for injuries received,	300	00		
Amounts carried forward	\$1,167	90	\$59,945	10

Amounts brought forward	\$1,167	90	\$59,945	10
Paid for DAMAGES ON ORDERS FROM THE COMMITTEE ON CLAIMS, &c.:				
To Helen M. Kately, for injuries received, Benjamin Robinson and wife, for in-	200	00		
juries to wifc	100	00		
William McFarlin, for injuries received	200			
N. G. Furnald, for damage to carriage,	45	75		
Sarah C. Wing, for injuries received Charles L. Cummings, for damage	100	00		
done land and wall teaming wood. Amos B. French, for right to take	10	00		
gravel for the term of ten years				
from his land, as per Resolution L. J. Richards, for raising Bickford	300	00		
Lang's building, on Gorham St., caused by raising grade of street.	225	00		
James Hopkins, for service of notice	. 0	10		
on B. F. Butler and others W. H. Clemence, for serving notice A. A. Davis, Boston & Lowell	* 3	16		
Railroad Co	1	16		
case of City of Lowell vs. B. F.	100	00		
Butler and others	100	00		
bridge and cash paid out in various	26	97		
professional services John H. McAlvin, cash paid Register of Deeds for recording Deeds from	20	21		
Peter Crudden (land, Gorham St.) and A. L. Brooks & Co., and				
Nichols & Cole (land, Dutton St.)				
to City of Lowell	1	30	2,480	54
Paid for SUNDRIES:			,	
To George S. Butters, for horses and				
teaming	428	00		
C. B. Coburn & Co., for manila rope, sperm oil, lead, kerosene oil, paint,				
varnish, axle grease, spirits turpen- tine, etc	109	73		
Amounts carried forward	. 537	73	\$62,425	64

Amounts brought forward	\$537	73	\$62,425	64
Paid for SUNDRIES:				
To J. E. Griffin, for repairing pump	9	00		
Jacob Rogers & Co., for hardware	146			
Fielding & Bartlett, for hardware		31		
Nichols & Fletcher, for powder fuse,	00	01		
baskets, pails, &c	123	00		
Buttrick & Co., for soap, salts, sul-	120	00		
phur, &c	6	18		
Michael Corbett, for salt		51		
Peter Quinn, for salt		80		
Robert Wood, for attendance and med-	•	00		
ical treatment of horses	58	00		
Robert McLaughlin, for attendance and	00	00		
medical treatment of horses	25	00		
J. R. Hayes, for medicine for horses		37		
Carleton & Hovey, for mustard		30		
W. W. Duncan, for medicine for hors-		90		
es	3	55		
Folsom & Tucker, for making signs,	Ü	00		
&c	6	15		
Henry C. Church, for time book	· ·	17		
Joshua Merrill & Son, for stationery.	21	06		
A. L. Brooks & Co., for sawdust	1	50		
W. F. Salmon, for expenses to Con-	•			
cord, Mass	3	00		
Daniel Hartford, for besom	_	60		
Luther Richards, for cash paid out for	·	00		
besom and labor	19	50		
L. J. Richards, for watering streets,	10			
(N. E. Fair)	37	05		
L. J. Richards, for labor and teaming	٠,	00		
gravel	40	00		
Bradford & Lee, for painting signs		40		
Abner Kittredge, for tarred paper		25		
Weare Clifford, for cash paid out for	_			
puddling trench	18	00		
D. S. Wood, for mowing		00		
Josiah Gates & Sons, for hose coup-		0.0		
lings and blunderbuss	126	00		
Proprietors of Locks & Canals on				
Merrimack River, for use of reser-				
voir water	82	85		
Fiske & Spalding, for drawing paper.	11			
S. G. Mack & Co., for galvanized pipe,				
cans, &c	• 9	25		
Amounts carried forward	\$1,451	39	\$62,425	64
	1			

Amounts brought forward	\$1,451	39	\$62,425	64
Paid for SUNDRIES:				
To H. H. Wilder & Co., for powder can, drinking cups, brass castings, &c. Paid Appropriation for School-houses,	4	67		
for nails, lumber, &c	23	82		
ings, for stove	2	00	1,481	88
To amount of Superintendent of Public Buildings' bills for the year	104	89	104	
			64,012	41
Deduct Amount of Superintendent of Streets' bills, charged to the follow- ing Appropriations or Accounts, viz.:				
For Schools Reserved Fund Paupers Police Fire Department Water Pipe Sewers and Drains Commons Lighting Streets and Public Buildings, Repairs of Public Buildings Health Account	5,052 1,857 1,362 571 903 63 2,895 463 517 6 385	18 59 80 35 75 48 63 00 50	14,079	47
Making the actual expenditure for Roads and Bridges in 1871	• • • • • • • • •	• • •	49,932 18,738	15
			\$68,671	09

RESERVED FUND.

RECEIPTS.

*Received into the Treasury from various sources	\$15,625 46	\$15,625	46
†Received from Appropriation for Schools		\$10,0 <u>2</u> 0	10
for heating High and Green School houses	949 63		
Transferred from Appropriation for Pau-		949	63
pers	6,000 00		
Transferred from Health Account	2,073 00	8,073	00
		\$24,648	09
Deduct amount overdrawn January 1, 1871,		543	
		\$24,104	70

EXPENDITURES.

Paid for LABOR:

To John Biggs	$911 25 \\ 882 75$
Asa B. Carle	668 26 532 13
Amount carried forward	

^{*}See pages 5, 6 and 7.

[†]See expenditures for Schools, page 37.

Amount brought forward	\$2,994 39
Paid for LABOR:	
To Charles E. Campbell	105 00
E. H. Farrell	43 50
James H. Hoyt	113 00
E. L. Jones	723 12
L. P. Little	910 50
Job Moody	482 50
Daniel Reynolds	486 00
John F. Rodgers	156 37
Addison Spaulding	275 31
Henry Baker	216 08
John Douglass	223 13
Theodore Fillmore	377 13
Frederick H. Jones	298 14
Charles B. Cole	93 95
George D. Flanders	52 50
Prosper Laro	274 07
William Benson	187 50
Moses Bassett	189 37
Orison Lewis	205 51
Henry C. Smiley	$ \begin{array}{c} 48 & 00 \\ 48 & 75 \end{array} $
	96 25
Edward Flanagan	30 19
James H. Golden	92 50
Mrs. John Freeman	8 75
Joseph Vasau	25 87
L. G. Howe, Jr.	29 25
R. B. Nevens	101 25
Daniel D. Fraser	168 00
Aaron Scadding	116 25
William Roberts	119 88
Andrew Dow	42 00
Henry A. La Mountain	78 29
Edward L. Plummer	56 00
Joseph Patnaud	52 51
Lewis Patnaud	3 50
Caffe Patnaud	4 38
John Cuddy	27 00
Michael Malioney	5 63
Hugh McIntire	8 75
John Marce	18 00
James Miker	14 00
S. S. Demers	2 63
Amount carried forward	\$9,604 70

Amount brought forward	\$9,604	70		
Paid for LABOR:				
Γο William H. Devlin	53	44		
Joseph Field		00		
Ellen A. Bridge	5	00		
Abby D. Gates	5	50		
Emily M. Warren		00		
Mason W. Presby		00		
George Robbins		00		
Ira Waldron		00		
S. G. Bailey	Z	00		
John McAleer, Engineer, (boilers City Government Building)	820	00		
Warren Fletcher, Janitor of Hunting-	020	00		
ton Hall	787.	31		
·			11,337	95
DII MAN ADAMBANDAMO (O. A.			11,00	
Paid TAX ABATEMENTS: (On As-				
sessors' Orders and Taxes Refund-				
ed).				
To Ziba Abbott, on tax overpaid of 1870,	11	12		
Alexis Adams, on tax overpaid of	9	00		
Benj. F. Batchelder, on tax overpaid	Z	00		
of 1870 · · · · · · · · · · · · · · · · · · ·	63	30		
John Burns, on tax overpaid of 1870,		00		
James McManus, on tax overpaid of	_			
1871	3	16		
Patrick O'Toole, on tax overpaid of				
1871	7	90		
John M. G. Parker, on tax overpaid				
of 1871	12	64		
James E. Ryan, on tax overpaid of	2	4.0		
Pariawin F Simpson on tow aromaid	2	48		
Benjamin F. Simpson, on tax overpaid of 1870	2	78		
Benjamin F. Simpson, on tax overpaid	4	10		
of 1871	110	60		
Mrs. Leonard Woods, on tax overpaid	110	00		
of 1871	45	03		
			263	01
WASHINGTON'S BIRTHDAY:				
To Lowell City Guards, firing National				
Salute, (38 guns)	50	00		
	00	00	50	0.0
Salute, (50 gains)			20	(14)
Sature, (80 gains)				00

Amount brought forward			\$11,650	96
MEMORIAL DAY, POST 42, GRAND ARMY OF THE REPUBLIC:				
To J. P. Maxfield, (per resolution)	300	00	300	00
FOURTH OF JULY—PAID FOR SA- LUTES. &c., THE NINETY- FIFTH ANNIVERSARY OF AMERICAN INDEPENDENCE:				
To Lowell City Guards, for firing national salute, sunrise, noon and sunset Aaron Garmon, for ringing bell (High	125	00		
Street Church)	4	00		
Alanson Gray, for ringing bell (Franklin School-house)	3	00		
L. G. Howe, Jr., for ringing bell (Varnum School-house)	2	00		
W. S. Simons, for posting bills		00		
		_	135	00
NEW ENGLAND FAIR—CITY GOV- ERNMENT CELEBRATION, SEPTEMBER 8th, 1871 :				
To Nichols & Hutchins, for dinners Company "C" 6th Regiment M. V. M.,	1,028	00		
for services	39	00		
for services	56	00		
Company "G" 6th Regiment M. V. M., for services	37	00		
Company "H" 6th Regiment M. V. M.,				
for servicesSpalding Light Cavalry, for services	$\begin{array}{c} 34 \\ 52 \end{array}$	00		
Post 42, Grand Army of the Republic,				
for services	101			
Dunstable Cornet Band, for music American Brass Band, for music	100 80			
Ephraim McDaniels, for services of	30			
Drum Corps	45			
H. O. Morse, for carriages William H. Wiggin, for lumber and	165	00		
labor (in tent)	72	27		
Amounts carried forward	\$1,809	27	\$12,085	96

Amounts brought forward	\$1,809	27	\$12,085	96
NEW ENGLAND FAIR—CITY GOV- ERNMENT CELEBRATION, SEPTEMBER 8th, 1871 :				
To Wm. F. Eno, for decorations	77	41		
C. W. Rugg, for use of piano	10			
Stanley & Co., for teaming	30			
L. S. Kimball, for teaming	1			
Middlesex Mechanics Association, for				
chairs	5	67		
Jeremiah Crowley, for cash paid out				
for prizes for regatta	200	00		
Brown & Chase, for printing	29	42		
Marden & Rowell, for advertising	9	00		
			2,171	77
Paid MEASURER OF WOOD AND				
BARK, AND SUPERINTEN-				
DENT OF CITY SCALES:				
To Sydney Davis, Measurer, (salary)	600	00		
Sydney Davis, Superintendent, (sal-	000	00		
ary)	200	00		
			800	00
Paid EXPENSES OF RECEPTION				
OF THE GRAND DUKE AL-				
EXIS:				
To A. A. Haggett, for expenses of Com-				
mittee	89			
J. E. Conant, for carriages	80			
J. E. Maynard, for carriages	16	00		
Marden & Rowell, for printing pro-	0	0.0		
gramine	9	00		
Alanson Gray, for ringing bell, Frank-		00		
lin School-house	1	00		
Thomas E. Saunders, for ringing bell,	1	00		
First Baptist Church	I	00	196	85
Paid MILITIA BOUNTIES:				
To sundry persons, May Inspection, 1871,				
Company "C"				
Company "C"				
Company "G"				
Company "H" 59 50				
1	259	50		
Amounts carried forward	\$259	50	\$15,254	58

•				
Amounts brought forward	\$259	50	\$15,254	58
Paid MILITIA BOUNTIES:				
Fall Encampment, 1871, To Company "C" 412 50 Company "D" 696 00 Company "G" 423 50 Company "H" 326 50	1,858	50	2,118	00
Paid for LEGAL PURPOSES:				
To T. H. Sweetser, for professional services under retainer T. H. Sweetser, for professional services in case of Railroad National	250	00		
Bank vs. City of Lowell (Thos. G. Gerrish)	150	00		
John F. McEvoy, for expenses in case of Railroad National Bank vs. City of Lowell, &c., (Thos. G. Gerrish) Charles P. Bowles, for eash paid out in	35	70		
summoning witnesses in case of Railroad National Bank vs. City of Lowell (Thos. G. Gerrish) George W. Norris, for horse and carries to summon witnesses in case	17	30	*	
riage to summon witnesses in case of Railroad National Bank vs. City of Lowell (Thos. G. Gerrish)	6	00	459	00
Paid for SUNDRIES:				
To Proprietors of Locks and Canals on Merrimack River, for rent of Lower Free Landing place for one year, ending December 31, 1871, as per				
lease dated December 8th, 1868 Bradford Marvel, for services examin-	300	00		
ing State Aid accounts from 1866 to 1870, and travelling expenses Bradford Marvel, for services adjust- ing tax on Bank Stock with Tax	225	00		
Commissioner	16	10		
Amounts carried forward	\$541	10	\$17,831	58

Amounts brought forward	\$541	10	\$17,831	58
Paid for SUNDRIES:				
To Bradford Marvel, for services copying valuation books of 1870, for the Tax Commissioner John W. Smith, cash paid out for expenses to Boston relating to State	125	00		
Aid, &c	10	86		
Caleb M. Marvel, for ascertaining the number of births in 1870 Francis Goward, for ascertaining the	25	52		
number of births in 1870 Joel Powers, for ascertaining the num-	12	56		
ber of births in 1870 Joseph D. Pinder, for ascertaining the	10	48		
number of births in 1870 Calvin Philbrick, for eash paid out for	25	36		
postage stamps, soap, matches, washing, labor, express, &c	22	02		
Calvin Philbrick, for one desk John H. Nichols, for cash paid out for postage stamps, carriage hire, soap, towels, matches, telegrams, sawdust, rent of box in Post Office,	8	00		
cleaning mats, spittoons, &c Joshua Merrill & Son, for blank books,	54	37		
stationery, &c	21	85		·
Henry C. Church, for stationery, &c Bacheller, Dumas & Co., for binding	129	66		
and ruling books, &c	105	12		
F. P. Coggeshall, for blank books, &c.,	9	50		
Abel Whitney, for ink	_	00		
Caleb Carver, for pens John H. McAlvin, for eash paid out for express charges, postage stamps, Bank Note Reporter, expenses to	1	50		
State House, &c	93	05		
age, &c	27	01		
	7	75		
Department, for freight on packages, Daniel Gage, for ice for 1871		00		
A. H. Gilman & Co., for sprinkling	24	00		
street	14	50		
Amounts carried forward	\$1,277	21	\$17,831	58

Amounts brought forward	\$1,277	7 21	\$17,831	58
Paid for SUNDRIES:				
To Alfred Gilman & Son, for repairing				
flags	3	00		
John Marriott, for camp trunk		00		
W. S. Simons, for posting warrants	4	. 00		
and notices	96	75		
		60		
Warren Fletcher, for saw-dust		00		
I. H. Libby, for repairing clock	1	00		
Cyrus Hovey, for cleaning and repair-	1	50		
ing clock	1	50		
French & Puffer, for crockery and	. 44	90		
glass-ware	→ 11			
Jacob Rogers & Co., for hardware, &c.,		17		
Fielding & Bartlett, for nails	3	00		
Benjamin Thurston, for entertaining	1.77	00		
Water Committee from Lawrence.	17	00		
H. O. Morse, for carriages for Legisla-	95	0.0		
tive Committee on hours of labor.	25	00		
E. F. Sherman, for cash paid out for				
expenses to Boston, in relation to	0	00		
betterment law	б	00		
John A. Knowles, Jr., for services as	450	00		
City Sealer	150	00		
John F. McEvoy, for cash paid for				
music for 4th of July Grand Con-				
cert, by order of Chief Marshal and				
Committee, and expenses, and pos-	10	4.4		
tage to different bands, (in 1870).	12	14		
Fiske & Spalding, for paint, varnish,				
labor, &c., on guns, Monument		00		
Square	17			
Eliphalet Hills, for gun plugs	0	75		
Ellen McQuade, for soap	2	00		
C. B. Coburn & Co., for twine		78		
Jonathan Kendall, for kerosene oil.		22		
Wright, Bird & Co., for washers for				
hearse	•	50		
Samuel Convers, for repairing hearse,	84	05		
G. S. Hatch, for leather straps on	,	0.0		
guns	4	00		
Frederick Small, for repairing hand-	_	F 0		
Stamp		50		
Drew & Welch, for towels		75		
S. G. Mack & Co., for spittoons	4	50		
Associate against formuland	Ø1 CCO	5.9	017 001	50
Amounts carried forward	\$1,669	99	\$17,831	ಾಗ

Amounts brought forward	\$1,669	53	\$17,831	58
Paid for SUNDRIES:				
To Alphonzo Merrill, for teaming ladders				
and ropes	2	5 0		
shades, nails, labor, &c	17	36		
Fiske & Spalding, for feather duster		90		
Benner Brothers, for chairs, Assessors'				
Office	16	00		
M. C. Pratt & Co., for sawing and				
planing	4	52		
T. Costello & Co., for stove, coal hod,				
&c., (hay scales)	40	77		
Howes & Burnham, for lumber, (Bury-	40	4.1		
ing Ground)	48	41		
staking out lots, &c., (Burying				
Ground)	30	67		
*Paid for vaccination (small-pox)	2,073			
Paid Appropriation for Schools, for	2,0.0	00		
mats, brushes, brooms, &c	16	91		
Paid Health Account, for inkstand,				
spittoons, &c	16	32		
			3,938	89
To amount of Superintendent of Streets'				
bills for the year	1,857	18	1.055	10
		_	1,857	18
			\$23,627	65
*Deduct amount transferred to the expense			\$20,021	00
of Health Account, for vaccination				
(as per resolution) small-pox	2,073	00		
, , ,			2,073	00
Deduct Amount of Superintendent of				
Public Buildings' bills, charged to				
the following Appropriations, viz.:				
the following reppropriations, viz.				
For Schools	3,625	15		
School-houses	4,067			
Roads and Bridges	104			
Paupers	115	42		
4 ,	A = 0.4.2	_	***	_
Amounts carried forward	\$7,912	71	\$21,554	65

^{*} For particulars in detail, see Health Account.

$Amounts\ brought\ forward\dots$	\$7,912	71 \$21,554	65
For Police	50	99	
Fire Department	481	20	
Commons	30 9		
Repairs of Public Buildings	984 4		
Health Account	175		
		9,635	50
Making the actual expenditure for the			
year 1871		11,919	15
Balance undrawn January 1, 1872			
		\$24,104	70

PAUPERS.

Appropriated and assessed in 1871	\$3,605 42 $21,000 00$	\$24,605 42
RECEIPTS.		
*Received into the Treasury from various sources Transferred from Health Account	$\frac{7,234\ 80}{27\ 00}$	7,234 80
Transferred to Reserved Fund	6,000 00	\$31,867 22 6,000 00 \$25,867 22

EXPENDITURES.

То	Lorenzo Phelps, Superintendent of the Almshouse and Farm William A. Lang, Chaplain and Teach-	1,500	00
	er of Reform School	800	00
	A. M. Gray, Clerk, &c	600	00
	Henry S. Phillips, for labor	327	-
	Nicholas Pierce, for labor	360	00
	H. A. Coburn, for labor	22	42
	Richard Thayer, for labor	70	00
4	Amount carried forward	\$3,679	42

^{*}See pages 8, 9 and 10.

Amount brought forward	\$3,679	42		
To Peter Duran, for labor	34	00		
Patrick Karrigan, for labor		00		
James Laidlow, for labor	12	00		
Norbert Brothers, for labor		00		
Charlotte A. Kitchen, for labor	52	00		
Maria Mooney, for labor	208	00		
Jennie Wright, for labor	156	00		
			4,174	42
Paid for GROCERIES, GRAIN, MEAT,				
&c., USED at the ALMSHOUSE:				
To S. N. Wood & Son, for grain, teed, &c.,	230	22		
Stiles, Rogers & Co., for flour, grain,				
&c	377	07		
Wm. E. Livingston, for meal, feed, &c.,	461	73		
Dodge, Sherburne & Co., for flour,				
meal and feed	460	23		
E. S. Hunt, for ham and curing meat,	10	57		
J. L. Sargent, for provisions	95	70		
Cyrns Blood, for mutton and beef	75	80		
A. F. Wright, for provisions	97	32		
Francis Jewett, for beef	110	46		
Samuel Horn & Co., for scraps	50	52		
Orlando Blodgett & Co., for provisions,				
killing hogs, &c		91		
Daniel S. Gray, for provisions		87		
J. H. Knights, for fish	14	16		
S. P. Perham, for making cider		44		
Martin Morris, for flour and baking Nichols & Hutchins, for confectionery,	84	50		
&c	56	90		
Samuel D. Billings, for fruit, fire-	90			
works, &c	23	32		
Boston & Lowell & Nashua & Lowell	20	0.3		
Railroad Companies, for freight on				
soap	2	18		
Union Oil Company, for soap	46			
Michael Corbett, for provisions	276			
P. Cummiskey, for tobacco		60		
W. G. Morse & Son, for groceries		60		
Nichols & Fletcher, for groceries		70		
A. D. Puffer & Co., for groceries and	-7,			
flour	1,117	97		
Albert Wheeler, for groceries	55			
Rice & Bailey, for provisions		67		
J / T			4,117	18
Amount carried forward			\$8,291	60
211100 and out recar joi wards		• • •	\$0,201	00

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Amount brought forward		\$8,291	60
Paid for NURSING and BOARDING PERSONS OUT OF THE ALMSHOUSE:			
To State Lunatic Hospital, (Worcester) for support of Caroline W. Prescott, Joseph Carpenter, Martha Weymouth, Laurena Boorn, Nathan C. Morse, Louisa Parker, Josephine B. McCarty, Roxanna Robinson, Ruel A. Brown, Charles Page, Enoch L. Lewis, Elizabeth Gibbons, Bridget Kerwin, John Donahoe, Albert Vickery, Angie A. Brown, Mary Casey, and Mary A.			
Mahan Lunatic Hospital, (Taunton) for support of Michael Sullivan	2,248 18		
port of Michael Sullivan Commonwealth of Massachusetts, for support of Edward M. Sawtelle, at	200 13		
Lunatic Hospital, Northampton Commonwealth of Massachusetts, for support of Mary Conners and John Gannon at Lunatic Hospitals at Taunton and Worcester	89 28 55 50		
State Reform School (Westborough, for boys), for keeping George W. Chamberlain, Henry Cassidy, William La Mountain, Charles F. Hopkins, John E. Lathe and John De-			
vine State Nautical School, (for boys), for maintenance of James Flanagan, George N. Freeman, John Cotter, James Murray, Everett Howard, Henry Quinn, Bernard Curren, Hugh Mellen, John Driscoll, James Kennedy, John P. McCann, Charles E. Stimpson, Francis Clarke, James Grant and Wm. Sullivan	328 90		
Amounts carried forward	\$3,027 20	\$8,291	60

Amounts brought forward	\$3,027	20	\$8,291	60
Paid for NURSING and BOARDING PERSONS OUT OF THE ALMS- HOUSE:				
To State Industrial School, for girls, (Lancaster), for support of Catharine Myrtle, Ellen Burns, Emma J. Boynton, Elizabeth Shute, Caroline E. Brown, Frances L. Tiechurst, Sarah E. Lambert, Zilpha F. V.				
Taylor, Mary A. Griffin, Mary A.				
MeDonough, Ellen Roark and Clara R. Quimby St. John's Hospital, for board and	133	86		
medical attendance of Mrs. Susan		2.0		
Plumb and John Chase Ripley E. Mason, for board of Luey	126	39		
Perkins	30	00		
Thomas Gibbons, for support of Elizabeth Gibbons	18	79		
David N. Burroughs, for assistance in	0.0	0.0		
eash	80	00		
cash	90			
Margaret Quinn, assistance in cash City of Lawrence, for relief of Alexan- der MeNaughton, Charles W. Kee-	100	00		
ser and Mrs. Naney Allen City of Boston, for relief of Miehael	82	7 5		
T. McNamara, Mary H. Roek wood, Sarah Shehan, Hannah K. Stevens, Maria Neilon, Thomas Mooney, John Foudy, Bridget O'Brien,			•	
George Taylor, Miehael Curry,	201			
John Callahan and John Shehan City of Charlestown, for relief of Nan- ey Shephard, Eliza O'Brien, Bridget	301	75		
Gallagher and Hannah B. Marshall	98	25		
City of Chelsea, for aid furnished Thomas F. Moran	39	00		
City of Lynn, for aid rendered Nellie				
C. Moore	39	00		
Lahiffe	9	75		
City of Woreester, for support of John Behan	13	00		
-	04.100		Au 201	
Amounts carried forward	\$4,189	14	\$8,291	50

Amounts brought forward	\$4,189	74	\$8,291	60
Paid for NURSING and BOARDING PERSONS OUT OF THE ALMS- HOUSE:				
2200021	1			
To City of Worcester, for aid rendered				
Michael McNamara and family of	100	90		
Patrick Behan Town of Tyngsborough, for board of	182	00		
George Shute	4	00		
Town of Methuen, for aid to Mrs.		0.0		
Rogers Town of Gloucester, for aid rendered	10	00		
Wm. L. Nevins	22	42		
Edward F. Sherman, for cash paid out				
on account of Paupers	89	- 0		
William Kittredge, for sawed wood	8	00	4,506	20
			1,000	
Paid for CLOTHING, DRY GOODS, BOOTS, SHOES, LEATHER, &c.:				
o Putnam & Son, for caps	36	00		
Wm. P. Brazer & Co., for straw hats,	12			
Folsom & Tucker, for dry goods	531			
H. Hosford & Co., for dry goods	158			
Cook & Taylor, for dry goods William Fiske, for comforters	82 86			
Mary C. Tuite, for clothing	11			
Daniel Swan, for shoe findings	2	00		
W. A. Brown, for leather and findings,	99	28		
Josiah Gates & Sons, for leather, oil, &c	46	10		
	40	_	1,066	37
Paid for COFFINS, INTERMENTS,				
&c.:				
o Terrence Hanover	180	00		
Calvin T. Chamberlin	72			
J. B. Currier	70			
Henry Hull	13	75	005	7 -
3				1/2
			335	10

Amount brought forward		• • •	\$14,200	01
Paid for SUNDRIES:				
To Calvin Philbrick, for cash paid out on account of Paupers John H. Nichols, for cash paid out for conveyance of Paupers, expressage,	11	90		
railroad tickets, &c Lorenzo Phelps, for cash paid out on	47	24		
account of Paupers		55		
count of Paupers	11	60		
D. C. Perham, for steers	145	80		
D. S. Gray, for one horse Town of Chelmsford, for tax on real	225			
estate, for 1871 Town of Chelmsford, for highway tax,	43	10		
for 1871		84		
E. B. Patch & Co., for furniture	105			
Benner Brothers, for furniture T. Costello & Co., for stoves, pipe,		00		
galvanized iron, &c		34		
N. J. Wier & Co., for cylinder	1	00		
J. W. Nash & Co., for stove, labor, &c. H. H. Wilder, for English pipe, English	30	81		
iron, repairing force pump, &c Fiske & Spalding, for whitewash	51	61		
brushes, whiting, &c	6	64		
Howes & Burnham, for lumber	159	40		
Norcross & Saunders, for lumber	47	08		
Adams Chamberlin, for chestnut posts	$\frac{1}{52}$			
Marshall & Emery, for rubber mouldings and labor	128			
French & Puffer, for crockery, glass-				
ware, &c		08		
Daniel Gage, for ice	21	88		
oil, glue, &c Jonathan Kendall, for alcohol and	15			
shellac	4	95		
Farwell & Billings, for wood	1,63			
Wm. E. Livingston, for lime and coal,	10	92		
L. C. Hall, for plants	16	45		
James Ledlow)	10	00		
Carleton & Hovey, for medicine	6	90		
Amounts carried forward	\$1,552	94	\$14,200	01

Amounts brought forward	\$ 1,552	94	\$14,200	01
Paid for SUNDRIES:				
To C. R. Kimball, for wine, medicines, &c.,	19	25		
Jacob Rogers & Co., for hardware	8	65		
Fielding & Bartlett, for hardware, &c.,	112			
John Hadley, for carriage hirc	2	50		
H. O. Morse, for baiting horse		50		
George W. Norris, for carriage hire,				
&c	37	34		
J. A. Brabrook & Co., for harnesses,				
repairing, &c	46	68		
Joel Jenkins, for repairing sleigh,				
wagon, &c	4	05		
Samuel Convers, for repairing wagon,	, ,	•		
&c		62		
Edwin Sanborn, for one spring wagon,	200			
Edwin Sanborn, for repairing carryall,		37		
M. V. B. Libby, for shoeing	25			
E. H. Marshall, for shoeing oxen, &c.,		09		
J. S. Shedd, for repairing ploughs		71		
John Butcher, for iron		30		
J. H. Haskell, for filing saws, &c	8	10		
Appropriation for School-houses, for	0.0	0.0		
lumber, nails, paint, &c	26	63		
Jeremiah Crowley, for services apprais-				
ing property at Almshouse and				
Farm, and recording personal prop-	10	00		
erty, 1871 Horace Ela, for services appraising	10	00		
property at Almshouse and Farm,				
1871	5	00		
Amos B. French, for services apprais-	9	00		
ing property at Almshouse and				
Farm, 1871	5	00		
Joshua Merrill & Son, for stationery	11			
F. P. Coggeshall, for stationery		79		
Henry C. Church, for stationery		50		
Appropriation for Schools, for school		90		
books	17	48		
Brown & Chase, for printing order		10		
book	10	75		
Bennett & Moulton, for mason work	94			
Samuel P. Pierce, for repairing fire				
engine	10	00		
Nathan Allen, for examinations and				
certificates in insane cases	21	00		
Amounts carried forward	\$2,311	82	\$14,200	01

Amounts brought forward	\$2,311	82	\$14,200	01
Paid for SUNDRIES:				
To William Bass, for examinations and certificates in insane cases Geo. E. Pinkham, for examination and	4	00		
certificate in insane case David Wells, for examination and cer-	2	00		
tificate in insane case John H. Gilman, for examination and	2	00		
certificates in insane cases	8	00		
George C. Osgood, for examination and certificates in insane cases John F. McEvoy, for cash paid out in case of Catharine Smith vs. R. G.	4	00		
Toles	16	90	9.940	70
*Paid for nurse sent to Hospital, board of William Tarbuck's children, whis- key and chloride of lime (small			2,348	72
pox)(smarr	27	00	07	00
To amount of Superintendent of Streets' bills for the year To amount of Superintendent of Public	1,362	59	. 21	00
Buildings' bills for the year	115	42	1,478	01
*Deduct amount transferred to expense of Health Account, for small pox (as	0.5	0.0	18,053	74
per resolution)	27		27	00
Whole expenditure for the year Balance undrawn January 1, 1872			18,026 7,840	
			\$25,867	22

^{*}For particulars in detail, see Health Account.

POLICE.

Balance undrawn, January 1, 1871 Appropriated and assessed in 1871 RECEIPTS. *Received into the Treasury, from various	\$ 3,356 40,000		43,356 14
sources	3,470	47	0.450.45
Transferred from Health Account	531	61	3,470 47
Trumble red 12012 12000 12000 1100 1000 000			531 61
			\$47,358 22
EXPENDITURI	ES.		
Paid Bickford Lang, City Marshal, (salary)	1,500	00	1,500 00
Paid for SERVICES OF POLICE OFFICERS:			
To Levi Brown, (Captain of Night Police),	930		
Charles P. Bowles, (Deputy Marshal),	1,089		
Squire L. Bailey	895	0 0	
Theophilus C. Blaisdell	895	- 0	
Andrew Blood	942 941	- 0	
William Bodge	$\frac{341}{187}$		
James Buchanan	720	- 0	
Otis Bullard	851		
John Callahan	767		
Asa D. Clark	512		
William L. Clark	943	75	
Peter Creighton	459	75	
Alfred Day	858	75	
Amounts carried forward	\$10,994	25	\$1,500 00

^{*}See pages 11 and 12.

Amounts brought forward	\$10,994	25	\$1,500	00
Paid for SERVICES OF POLICE				
OFFICERS:				
To John Dougherty	915	00		
Asa F. Esty	902	50		
William P. Farrington	892	50	•	
Jacob G. Favor	907	50		
Augustus B. Foss	928	75		
Harrison H. Fuller	856	25		
Michael Garrigan	922	50		
David H. Goodhue	928	75		
Thomas Ingalls	887	50		
Charles C. Langley	80	00		
William M. Lee	920	00		
Albert E. Libby	935	00		
Isaac L. Libby	871	25		
John A. Meloy	392	50		
Frank N. Miles	427	50		
Eliphalet Miller	898	75		
Benjamin G. Mooney	907	50		
Alonzo Page	-886	25		
Mason W. Presby	927			
George W. Sanborn	946			
Thomas J. Sanborn	906			
Daniel H. Sinclair	947			
James W. Sheffield	922	50		
David S. Spaulding	153	75		
Frank T. Thissell	826			
Henry M. Thompson	125			
James E. Webster	727			
Stephen L. Young	790	00		
			32,726	75
Paid POLICE JUSTICE:				
To Nathan Crosby, for services as Police				
Justice in truant cases	100	00		
			100	00
Paid for TRUANT COMMISSIONER:				
To Jesse Huse, for services	880	00		
10 9 cbsc 11 dbc, for screens			880	00
Paid for SPECIAL POLICE:				
To William H. Adams	97	50		
George S. Adams	10			
George D. Admis	10	00		
$Amounts\ carried\ forward$. \$107	50	\$35,206	75

The second secon				
Amounts brought forward	\$107	50	\$35,206	75
Paid for SPECIAL POLICE:				
To Stephen Bartlett	283	75		
Artemas P. Bartlett	43	75		
John Buchanan	86	25		
Abel C. Chase	13	75		
Thomas H. Clough	203	75		
Henry Farrington	111	25		
George W. Hobart	80	00		
Charles Howard	246	25		
Henry H. Johnson	176	25		
Patrick Kelley	96	25		
C. C. Langley	178	75		
William M. Locke	67	50		
Ephraim McDaniels	97	50		
Ebenezer W. Norton	300	00		
Mason W. Presby	22	50		
Albert D. Porter	96	25		
Byron C. Sanborn	68	75		
Jacob R. Smith	86	25		
Henry M. Thompson	102	50		
John W. Tilton	57	50		
Gilbert Trueworthy	76	25		
Thomas Walsh	188	75		
Theo. E. Des Rochers	75	00	0.000	~ =
_			2,866	25
Paid for POLICE, NEW ENGLAND FAIR:				
To Samuel E. Buchanan	90	00		
Thomas Callahan	$\frac{20}{15}$			
Jacob K. Chase	12			
James M. Claffin	10	-		
Moses Davenport	10			
William P. Dolloff	15			
Stephen R. Fletcher	10			
Warren B. Foss	7			
George M. Gale	12			
Aaron Garmon	15			
Albion L. Gilman	15			
Frank Goodwin	12			
Dixon Greeno	15			
Orsemus G. Goldsmith		75		
Newton Hall	15			
Oliver Hayes	$\frac{15}{15}$			
		_		_
Amounts carried forward	\$203	75	\$38,073	00

Amounts brought forward	\$203	7 5	\$38,073	00
Paid for POLICE, NEW ENGLAND EAIR:				
To Terrence Kelley	10	00		
Edward E. Lapham	12			
Orson S. Lewis	10	00		
Nathaniel M. Lamson	10	00		
Ezra Mitchell	12	50		
Francis O'Neill	10	00		
Edward D. Pollister	12	50		
Levi Palmer	17	50		
Simeon M. Sanborn	10	00		
Sylvanus C. Smiley	10	00		
Andrew J. Tuck	12			
Davis S. Tucker	17			
Joseph R. Welch		50		
William F. Williams	15	00		
Levi H. Witham		00		
Herbert L. Young		00		
Philo B. Van Dyke		00		
Lewis B. Valcore		00		
Horatio W. Longa		00		
Thomas Carroll	12	00	4 - 4	~~
			451	25
Paid for SUNDRIES, NEW ENG- LAND FAIR:				
To Thomas J. Sanborn, for eash paid for lodging Police Officers from out of				
the City	6	00		
Charles P. Bowles, for expenses for	ŭ			
team	5	00		
C. W. Palfrey, for conveying State	0	0.0		
Police to Fair Ground	9	80		
J. H. Brock, for conveying State Police to Fair Ground	•	0.0		
nce to rair Ground	4	80	95	60
			20	00
Paid for SUNDRIES:				
To C. B. Coburn, for rent of Police Court				
Rooms to October 1, 1871	650	00		
Bennett & Moulton, for mason work	51	78		
Thomas E. Bailey, for mason work	19	88		
Amounts carried forward	\$721	66	\$38,549	85

Amounts brought forward	\$721	66	\$38,549	85
Paid for SUNDRIES:				
To H. R. Barker & Co., for brass plates,			·	
pipe, &c	2	70		
Milton Aldrich, for turning rattles	2	20		
Thomas P. Glover, for labor, Police				
Station		00		
Fiske & Spalding, for glazing		25		
Abner Kittredge, for tar		00		
Jonathan Kendall, for varnish, &c	1	75		
C. B. Coburn & Co., for varnish and		00		
glass Jacob Rogers & Co., for hardware		90		
Chase, Sargent & Shattuck, for shovel,		$\begin{array}{c} 71 \\ 25 \end{array}$		
S. G. Mack & Co., for repairing stoves,	1	20		
boiler, furnace, &c	20	05		
Samuel Beck, for galvanized iron pipe,		00		
chain, tin-plate, labor, &c	48	82		
H. H. Wilder & Co., for pipe, repair-				
ing water-closet, &c	34	27		
Offutt & Whittaker, for fluid, repairing,				
lanterns, stove, &c	29	87		
Puffer & Bradley, for mattresses, blank-				
ets, cocoa-matting, zinc, spittoon,	0.5			
&c		45		
Moses Harmon, for stool		$\begin{array}{c} 75 \\ 02 \end{array}$		
Joshua Merrill & Son, for stationery. F. P. Coggeshall, for stationery		70		
Henry C. Church, for stationery		67		
Bacheller, Dumas & Co., for blank-	10	•		
books and binding	16	25		
George W. Norris, for horse and				
wagon	12	5 0		
George L. Huntoon, for horse and				
wagon	2	00		
Joseph Raynes & Co., for Police				
badges	106	00		
H. M. Richards' Jewelry Co., for re-	4.4	00		
gilding Police buttons		90		
Daniel Gage, for ice for 1871 Buttrick & Co., for sperm oil and	22	50		
bread	9	41		
Albert Wheeler, for matches	_	20		
A. C. Wright & Co., for tea, coffee,	10			
fish, crackers, sugar, &c	62	54		
Amounts carried forward	\$1,247	32	\$38,549	85

Amounts brought forward	\$1,247	32	\$38,549	85
Paid for SUNDRIES:				
To G. J. & D. Bradt, for crackers	43	88		
S. A. Scripture & Co., for crackers	40			
Smith Adams, for soap		00		
Alfred Barney, for mop handles		75		
George Thatcher, for repairing bell,				
Police Station	1	00		
John H. Gilman, for surgical attend-				
ance of Michael Mehan, Police				
Station	3	00		
Geo. E. Pinkham, for surgical attend-				
ance of Patrick Burke, Police Sta-				
tion	3	00		
A. Buswell, for medical attendance of				
Henry Smith, Police Station	3	75		
Frank T. Thissell, for burying dogs	14	50		
William P. Farrington, for burying				
dogs		50		
Thomas J. Sanborn, for burying dogs.	8	00	· ·	
Charles P. Bowles, for conveyance of				
prisoners to House of Correction,				
Jail, for carriages, &c	118	04		
Asa D. Clark, for conveyance of pris-				
oners to House of Correction, Jail,	171	25		
for carriages, &c	154	29		
Benjamin G. Mooney, for conveyance				
of persons to Lunatic Hospital,	216	69		
Worcester, travelling expenses, &c., Jacob G. Favor, for conveyance of	210	00		
prisoners to House of Correction,				
carriage hire, travelling expenses,				
&c	249	09		
Harrison H. Fuller, for conveyance of	210	02		
prisoners to House of Correction,				
Jail, &c	84	95		
Jesse Huse, for cash paid expenses to	~			
Boston, in cases before Judge of				
Probate	7	76		
Michael Garrigan, for expenses to Wal-				
tham, &c	9	90		
Alfred Day, for eash paid out for car-				
riage hire	4	00		
Albert E. Libby, for carriage hire, tel-				
egrams, &c	6	85		
4 1 7 6 7	40.001		A20 F10	
Amounts carried forward	\$Z,234	55	\$38,549	85

Amounts brought forward	\$2,234 35	\$38,549 85
Paid for SUNDRIES:		
Γο Otis Bullard, for eash paid out for		
washing Police Station, feeding	ŕ	
destitute persons, and repairing		
bedding	41 37	
Isaac L. Libby, for eash paid out for		
washing, feeding destitute persons	40.91	
and repairing bedding	49 31	
brooms, &c	14 13	
Appropriation for repairs of Public	11 10	
Buildings, for lumber, nails, oil,		
&c	15 93	
		2,355 09
Paid for DAMAGES, &c.:		
To George W. Sanborn, for cash paid out		
for counsel fees, in case of Callahan		
vs. Sanborn, (4th of July, 1870)	75 00	
Tappan Wentworth, for services on		
the trial of the action John Heald		
vs. Bickford Lang; cause of action, taking down an awning	² 40 00	
taking down an awning	40 00	115 00
To amount of Superintendent of Streets'		110 00
bills for the year	571 80	
		571 80
To amount of Superintendent of Public		
Buildings' bills for the year	50 99	F 0.0.
*Paid for services of Police Officers, and		50 99
bills of Amos S. Brown, Luke C.		
Dodge, C. P. Talbot & Co., Wil-		
liam Reardon, John McLaughlin,		
Charles R. Kimball and William		
McCarty	531 61	
		531 63
*Doduct omount trous		10.57
*Deduct amount transferred to expense		42,174 34
of Health Account, for small-pox, (as per resolution)	531 61	
(as per resolution)	331 61	531 63
Whole expenditure for the year		41,642 78
Balance undrawn January 1, 1872		5,715 4
	_	\$47,358 2

^{*}For particulars in detail, see Health Account.

FIRE DEPARTMENT.

Balance undrawn January 1, 1871 Appropriated and assessed in 1871	\$3,010 30,000		\$33,010	11
RECEIPTS.				
*Received into the Treasury from various sources †Received from the Appropriation for repairs of Public Buildings, for lum-	2,014	94		
ber	7	50		
Transferred from the Appropriation for Fire Alarm Telegraph	32	26	2,022	44 26
*			\$35,064	
EXPENDITUR	ES.			Marcol Color (Ma
Paid CHIEF ENGINEER and AS- SISTANT ENGINEERS:				
To Weare Clifford, Chief Engineer, salary to January 1, 1872	1,400	00		
to November 1, 1871	125	00		
Samuel W. Taylor, Assistant Engineer, to November 1, 1871 William W. Bates. Assistant Engineer,	125	00		
to November 1, 1871	125	00		
and Clerk for the Board of Engin- eers, to November 1, 1871 Charles W. Marriott, Assistant Engin-	150	00		
eer, to May 1, 1871	62	50		
John G. Crockett, Assistant Engineer, to May 1, 1871	62	50	2,050	00
Amount carried forward	• • • • • •	• • •	\$2,050	00

^{*}See page 12.

[†]See expenditures for Appropriation for Public Buildings.

· · · · · · · · · · · · · · · · · · ·			
Amount brought forward		\$2,050	00
Paid to FIREMEN:			
Fo Firemen's annual time-pay, to November 1, 1871	9,441 16	9,441	16
Paid for services as DRIVERS AND STEWARDS, etc., OF STEAM FIRE ENGINES:			
Го John F. Lord, No. 1	730 00		
William Hyatt, No. 2	668 00		
William H. Lewis, (Hook & Ladder).	730 00		
Frank D. Parsons, No. 3	730 00		
Henry Boynton, No. 1	14 00		
Henry Boynton, No. 2	$14 00 \\ 14 00$		
Henry A. Lamountain (Hook and	14 00		
Ladder)	14 00		
James McQuaid, steward, Rocket No.2,	28 32		
John F. Lord, for washing bedding, &c. William Hyatt, for washing bedding,	24 00		
Frank D. Parsons, for washing bed-	22 00	,	
ding, etc	24 00		
<i>C.</i>		3,012	32
Paid for HAY AND GRAIN FOR HORSES FOR STEAM FIRE ENGINES:			٠
To William E. Livingston, for hay and			
grain	231 84		
Samuel N. Wood & Son, for grain	256 32		
Stiles, Rogers & Co., for grain Dodge, Sherburne & Co., for grain	$168 30 \\ 162 66$		
Milton Fox, for hay	517 09		
A. J. Trull, for hay	67 38		
Samuel Woods, for hay	49 50		
John Allen, for straw	11 50		
Weare Clifford, for cash paid for straw,	14 75		
Sydney Davis, for straw	38 44		
L. W. Jenness, for straw	9 15	1 500	0.0
		1,526	93
Amount carried forward		\$16,030	41

Amount brought forward			\$16,030	41
Paid for HORSES TO DRAW ENGINES, HOOK AND LADDER AND HOSE CARRIAGES TO FIRES, etc.:				
To Ward S. Dudley, for horses. O. W. Flint, for horses. John Hadley, for horses. C. H. Hanson, for horses. J. H. Knights, for horses. D. G. Leavitt, for horses. H. O. Morse, for horses. George W. Norris, for horses. J. L. Noyes, for horses. Alfred Scott, for use of horses and keeping.	5 24 22 10 28 16 10 30 10	00 00 00 00 00 00	176	00
Paid for SHOEING HORSES, &c.: To A. H. & J. H. Abbott M. V. B. Libby James Quinn	71 25 1		98	40
Paid for NEW APPARATUS:				
To Wright & Company, for one Hose Carriage, for Mazeppa Hose Co. No. 4, as per contract	950 68		1, 018	39
Paid for SUNDRIES:				
To Proprietors of Locks & Canals on Merrimack River, for use of Reservoir water in City pipes, as per agreement of July 28, 1868 Proprietors of Locks & Canals on Merrimack River, for use of Reservoir water in City pipes, as per	7,500			
agreement of May 8, 1871 George S. Hatch, for whip stock and harness soap	486	2656		
Amounts carried forward		_	\$17,323	20

Amounts brought forward	\$7,987	82	\$17,323 20
Paid for SUNDRIES:			
To S. L. Butman, for repairing harnesses,			
&c	64	58	
J. A. Brabrook & Co., for repairing			
harnesses, &c	29	81	
Samuel Convers, for blankets, har-	0.05	05	
nesses, repairing harnesses, &c	265		
John G. Allen, for repairing harness Wright & Co., for repairing wagons,		75	
Steamers, &c	124	30	
Wright, Bird & Co., for repairing Hose			
Carriages, wagons, &c	259	40	
Edward Meredith, for repairing Hose			
Carriages, Steamer wheels, &c	66	25	
Alonzo K. Lynch, for painting, var-			
nishing and repairing Hose Car-	51	75	
riage	91	10	
No. 1	1	50	
H. R. Barker & Co., for hydrants,	_		
repairing hydrants, steamers, pipe,			
labor, &c	136	73	
Josiah Gates & Sons, for new hose,			
hydrant connections, hose stuffing,			
blunderbuss, leather, axe, repairing hose, &c	1,696	4.3	
Joseph R. Hayes, for medicine, &c.,	1,000	40	
for horses	48	18	
C. R. Kimball, for elastic syringe	1	00	
Robert Wood, for medical treatment			
for horse	11	50	
C. B. Coburn & Co., for white lead,	20	0.1	
packing, manila rope, tallow &c Jonathan Kendall, for sperm and kero-	26	91	
sene oil, benzine, spirits turpen-			
tine, shellac, brushes, axle grease,			
paint, varnish, &c	43	78	
Nichols & Fletcher, for matches,			
brooms, rope, soap, mineral salt,			
&c	65	49	
Powers & Munn, for matches, soap,	5	17	
tripoli, oil, polish, brooms, &c Francis H. Chandler, for matches, oil,	9	11	
alcohol, oil-can, soap, borax, prunes,			
axle grease, feather duster, &c	41	39	
_		_	
Amounts carried forward	\$10,927	79	\$17,323 20

Amounts brought forward \$	10,927	79	\$17,323	20
Paid for SUNDRIES:				
To Isaac Place, for doors and moulding. J. G. Peabody, for wood	$\overset{65}{\overset{4}{}}$	78 50		
H. & A. Whitney, for lumber	82			
Howes & Burnham, for lumber	$\begin{array}{c} 67 \\ 128 \end{array}$			
A. L. Brooks & Co., for lumber Norcross & Saunders, for lumber and		02		
sawdust Davis & Melendy, for lumber	111			
Appropriation for Repairs of Public	111	O-X		
Buildings, for lumber, nails, &c	8	49		
Appropriation for School Houses, for				
lumber, paint, glass, &c	110	04		
Appropriation for Schools, for brooms,	2	0.0		
thermometer, &c	2	66		
M. C. Pratt & Co., for mouldings, doors, lumber, planing, sawing, &c.	76	40		
J. W. Bennett, for sheathing, compo-	• •	T U		
sition, labor, &c	146	46		
John C. Bennett, for rubber moulding	20	14		
C. P. Talbot & Co., for blue vitriol,	37	40		
Wm. E. Livingston, for cement and				
brick		60		
John Butcher, for chain and iron	2	25		
Thomas P. Glover & Co., for handles.	11	80		
Chamberlin & Jockow, for wrenches	11	00		
and iron work	20	50		
J. W. Proctor, for repairing pump, &c.	3	66		
George L. Cady, for labor, repairing				
Steamer No. 2	21			
A. Grover, for cutting steel stamp		80		
Conant & Co., for use of truck	12			
Cole & Nichols, for castings	1 3	44 00		
T. H. Curtis, for keys Lyman Webster, for bar on cart, &c		50		
William Whitmore, for cutting stencil,		75		
H. A. Hildreth, for coal sifter	1	25		
Henry C. Church, for waste	1	25		
E. A. & A. T. Smith, for concrete				
walk	15			
Folsom & Tucker, for cotton drilling.	0	30		
William Fiske, for comforters		75		
H. O. Morse, for horse and sleigh	Z	00		
Amounts carried forward	\$11,906	14	\$17,323	20

Amounts brought forward	\$11,906	14	\$17,323	20
Paid for SUNDRIES:				
To Milton Aldrich, for pins Boston & Lowell Railroad Parcels Department, for freight on box,		15		
and castingsGeorge Offutt & Son, for repairing		20		
mattresses, &c	$\begin{array}{c} 44 \\ 52 \end{array}$			
French & Puffer, for lanterns		75		
H. A. Boynton, for lanterns, oil, &c	7	00		
Alfred Barney, for towel roller		25		
Lowell Gas Light Co., for pipe, &c		40		
Jonathan Rollins, for mason work		50		
D. M. Prescott & Co., for mason work,	278	02		
Weare Clifford, for cash paid out for				
fares to Boston, Fitchburg; waste, liniment, &c	24	38		
O. D. Witherell, for cannel coal	85			
Boston & Lowell and Nashna & Low-	00	12		
ell Railroad Corporation, for freight				
on coal	7	20		
Fiske & Spalding, for graining, paper				
hangings, lanterns, brushes, labor,				
&c	131	88		
Brown & Carter, for paint, graining,		0.0		
labor, &c	88	32		
T. Costello & Co., for stove, pipe,	99	05		
zine, labor, &c	33	85		
&c	6	25		
H. H. Wilder & Co., for stoves, iron	0	20		
pipe, repairing force pump, zinc,				
castings, &c	101	58		
Lowell Fire Department, for services				
at City Celebration, at New Eng-				
land Fair	128	00		
Lowell Cornet Band, for music, (N. E.	0.5	00		
Fair)	95	00		
cleaning Engine Houses Nos. 1, 2				
and 3	11	00		
William Doyle, for oiling hose	36			
George Lane, for oiling hose	12			
John F. Lord, for cleaning Engine				
House	5	00		
1	010.050		017.000	
Amounts carried forward	\$13,078	24	\$17,323	20

Amounts brought forward	\$13,073	24	\$17,323	20
Paid for SUNDRIES:				
To W. H. Lewis, for making towels, &c William Hyatt, for labor on Steamer		80		
No. 2		00		
hydrants		00		
C. A. Lord, for labor on Steamer No. 3, F. D. Parsons, for repairing bedding,		00		
Steamer No. 3	7	50		
William Charters, for labor on water pipe and hydrants	326	00		
John Powers, for labor on water pipe	387			
and hydrants		49		
Fielding & Bartlett, for hardware		49		
Chase, Sargent & Shattuck, for hard-				
Charles E. Adams for hardware		65		
Charles E. Adams, for hardware		68 85		
Joshua Merrill & Son, for stationery. Gamewell & Co., for Automatic signal				
boxes, gongs, wire, insulators, &c. Telegraph Wire Co., for telegraphic	1,032	25		
wire, &cAddison Putnam, for cash paid out	140	10		
for expenses of Committee to Law- rence and Fitchburg, to view the				
operation of Fire Alarm Telegraph, Torrey E. Stratton, for services as	15	15		
operator of Fire Alarm Telegraph,				
labor, &c	314	15	15 440	10
To amount of Superintendent of Public			15,449	10
Buildings' bills	481	20		
Dundings onis	401	20	481	20
To amount of Superintendent of Streets'			101	20
bills	903	35		
			903	35
Whole Expenditure for the year			34,156	85
Balance undrawn January 1, 1872			907	
			\$35,064	81

WATER PIPE.

Balance undrawn January 1, 1871	\$2,914 38	\$2,914 38
RECEIPTS.		# H 1 + L 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
*Received into the Treasury from various sources	61 20	61 20
		\$2,975 58
EXPENDITURI	ES.	
Paid for SUNDRIES:		
To Proprietors of Locks and Canals on		
Merrimack River, for leaks in water pipe, as per agreement H. R. Barker & Co., for hydrants,	6 00	
stock, labor, &c	134 65	
mer Brown & Carter, for white lead and oil, Chamberlin & Jockow, for socket	1 40 73	`
wrenches William E. Livingston, for cement H. H. Wilder & Co., for wash-basin,	18 00 5 25	
iron pipe, labor, &c	4 78	
manila cord, oakum, &c Conant & Co.'s Express, for use of	9 39	
truckJames Biggs, for labor	12 75 6 00	198 95
To amount of Superintendent of Streets' bills	63 75	190 99
		63 75
Whole expenditure for the year		262 70
Balance undrawn January 1, 1872		2,712 88
		\$2.975 58

^{*}See page 12.

SEWERS AND DRAINS.

Balance undrawn January 1, 1871 Appropriated and assessed in 1871	\$ 179 15,000		
Appropriated and assessed in 10.1			\$15,179 18
RECEIPTS.			
Received for SEWER ASSESSMENTS, &c.:			
In January.			
Of Mrs. C. L. George, for sewer assess-			
ment	205	03	
F. C. Plunkett, for sewer assessment.	109	82	
S. G. Mack, for sewer assessment	31	29	
Thomas McKenna, for sewer assess-			
ment	60	19	
Clarendon Goodwin, for sewer assess-	90	10	
ment		$\frac{18}{23}$	
Abram French, for sewer assessment.	Z	23	
Lawrence Redmond, for sewer assessment	97	03	
George W. Haseltine, for sewer assess-	21	00	
ment	35	47	
Mrs. O. H. Moulton, for sewer assess-	00	~•	
ment	30	22	
Artemas Bedlow, for sewer assessment,	87	44	
Henry E. Hill, for sewer assessment	56	43	
Elbridge Goding, for sewer assessment,	116	67	
Charles T. Goddard, for sewer assess-			
ment	63	99	
L. D. & E. Gilson, for sewer assessment		50	
Francis Smith, for sewer assessment		46	
Mrs. John Flynn, for sewer assessment,		53	
Isaae Hartwell, for sewer assessment.	154		
Alanson Folsom, for sewer assessment,		53	
John Keenan, for sewer assessment	34	49	1,188 80
			010.007.00
Amount carried forward	•••••	• • •	\$16,367 98

Amount brought forward		• • •	\$16,367	98
Received for SEWER ASSESSMENTS, &c.:				
In February.				
Of M. Aldrich, for sewer assessment	29	42		
W. P. Wilbur, for sewer assessment	36	61		
Adam Ort, for sewer assessment Richard O'Connell, for sewer assess-	25	55		
ment	55			
Bridget Lyons, for sewer assessment. Dustin B. Melvin, for sewer assess-	28		,	
ment	57	13		
ment	104			
Patrick Carr, for sewer assessment	37	55 —	374	71
In March.			3.1	
Of Daniel Richardson, Jr., for sewer as-				
sessment	24	31		
Martin Sexton, for sewer assessment.	24	31		
William Bodge, for sewer assessment,	24			
James Howard, for sewer assessment.	61			
John S. Devlin, for sewer assessment, Elbridge Dearborn, for sewer assess-	23			
ment	49	59	207	32
In April.				
Of Rose A. Keating, for entering Crosby				
Street sewer	20	00		
assessment	33			
Sidney Spalding, for sewer assessment,	332			
Anson Lamere, for sewer assessment.	35	01	420	68
In May.				
Of Spalding, Horn & Allen, for sewer				
assessment	16	83		
ment Heirs of Francis Smith, for sewer as-	94	27		
sessment	41	92		
Amounts carried forward	\$153	02	\$17,370	69

Amounts brought forward	\$153	02	\$17,370	69
Received for SEWER ASSESSMENTS, &c.:				
Of Sumner S. Fisher, for sewer assess-	F.C.	9.0		
ment		36	209	38
In June.				
Of Thomas E. Ward, for entering Fletcher				
Street sewer	20	00		
John Wilson and others, for entering Market Street sewer, in rear of				
Merrimack Street	100	00		
George Hobson, for entering Winter	40	00		
Street sewer		$\begin{array}{c} 00 \\ 05 \end{array}$		
John McCann, for sewer assessment.		22		
,		_	261	27
In July.				
Of Peter Brady, for sewer assessment		87		
S. G. Pettigrew, for sewer assessment,		04		
E. B. Worthen, for sewer assessment.	44	52	137	43
In August.				
Of Josiah P.Woods, for sewer assessment,	24	31		
James M. Whitcomb, for sewer assess-				
ment	17	49		
James M. Whitcomb, for sewer assessment	48	63		
Jonathan Hope, for sewer assessment.	120			
John A. Denton, for sewer assessment,	114	04		
Heirs of J. K. Dewhurst, for sewer assessment	115	15		
John Donahoe, for sewer assessment.		85		
Daniel Coburn, for sewer assessment.	53	28		
Daniel Coburn, for sewer assessment.	29	18		
Matthew Donovan, for sewer assessment	69	73	- 4	
Samuel Weeks, for sewer assessment,		91		
			725	08
In September.				
Of O. & P. Fitzpatrick, for sewer assess-	2			
D. S. Kimball, for remote drainage		40 00		
D. D. Kimban, for remote dramage			74	40
			A10 850	
Amount carried forward		• • •	\$18,778	25

Amount brought forward		••••	\$18,778	2
Received for SEWER ASSESSMENTS, &e.:				
In October.				
of A. C. Wheeloek, for sewer assessment, Heirs of Thomas Seotchburn, for sew-	60	86		
er assessment		69		
F. P. Coggeshall, for sewer assessment, William Shepard, for sewer assess-		15		
Petriol Ducy for source assessment		30		
Patriek Ducy, for sewer assessment George W. Dudley, for sewer assess-		77		
ment		43		
Alfred H. Chase, for sewer assessment,		08 60		
in a second assessment,			476	88
In November.				
f Fisher A. Hildreth, for sewer assess-				
ment Mrs. Ira Thompson, for sewer assess-	89	60		
ment	11	25		
John N. Leary, for sewer assessment.		22		
A. C. Wheelock, for sewer assessment,	170			
A. L. Brooks, for sewer assessment John Rothwell, for sewer assessment.		52		
Wm. L. North, for sewer assessment.		$\frac{62}{72}$		
Thomas Grant, for sewer assessment.		28		
Patrick Lynch, for sewer assessment.	206			
William Kelley, for sewer assessment,		49		
		_	756	08
· In December.				
f Mary Penniman, for sewer assessment,	44	46		
Patrick Collins, for sewer assessment,		75		
1. N. Fitts, for sewer assessment	121			
Jesse Huse, for sewer assessment	49	62	250	51
			\$20,261	79

EXPENDITURES.

D 11 4 CONCERDITORING CONTERD
Paid for CONSTRUCTING SEWER
from CONCORD RIVER through
CHURCH STREET to GEORGE
STREET; thence through GEORGE
STREET to TYLER STREET;
thence through TYLER STREET
to CENTRAL STREET; thence
through CENTRAL STREET to
CHARLES STREET; thence
through CHARLES STREET to
GORHAM STREET; thence
through SUMMER STREET to the
SOUTH COMMON.

Paid for LABOR, as per PAY ROLLS:

In August. September. October. November. December.	\$ 131 1,925 2,234 1,664 1,242	19 82 70		
D'I 4 OUNDING I D'		_	7,198 41	L
Paid for SUNDRIES on above Drain:				
To E. H. Patten & Co., for brick	1,160	00		
Daniel Parker, for brick	336			
Boston & Lowell and Nashua & Low-				
ell Railroad Companies, for freight				
on brick	315	90		
William E. Livingston, for cement	744	60		
Warren C. Crosby, for drain pipe	48	90		
William H. French, for rent of land				
for brick	18			
Runels & Davis, for labor	17			
Robert Park, for old piling		04		
H. R. Bishop & Co., for ladder	3	67		
H. R. Barker & Co., for submerged				
pump, pipe, labor, &c	45			
John Butcher, for cast-steel bars		87		
Patrick Lynch, for two casks	8	00		
Fiske & Spalding, for lettering sign		96		
T. Costello & Co., for dipper		12		
H. H. Wilder & Co., for blasting tubes,				
pipe, oil-can, powder-can, wash-				
dishes, labor, &c	70	11		
Amounts carried forward	\$2,808	77	\$7,198 4	1

Paid for SUNDRIES on above Drain: To Fielding & Bartlett, for hardware, &c. Jacob Rogers & Co., for hardware, &c. Nichols & Fletcher, for powder, fuse, manila rope, pails, brooms, &c Norcross & Saunders, for lumber	128 50	83	\$7,198	41
To Fielding & Bartlett, for hardware, &c. Jacob Rogers & Co., for hardware, &c. Nichols & Fletcher, for powder, fuse, manila rope, pails, brooms, &c Norcross & Saunders, for lumber				
Jacob Rogers & Co., for hardware, &c. Nichols & Fletcher, for powder, fuse, manila rope, pails, brooms, &c Norcross & Saunders, for lumber				
Jacob Rogers & Co., for hardware, &c. Nichols & Fletcher, for powder, fuse, manila rope, pails, brooms, &c Norcross & Saunders, for lumber				
manila rope, pails, brooms, &c Norcross & Saunders, for lumber		30		
Norcross & Saunders, for lumber	106	84		
	308			
French & Puffer, for lanterns, oil-can,				
kerosene oil, globes, &c	18	97		
C. B. Coburn & Co., for fire clay	1	04	0.400	
_			3,423	53
			\$10,621	94
Paid for SUNDRIES:				
To Warren C. Crosby, for drain pipe Weare Clifford, for pumping water and	2,263	70		
washing out sewers	35	75		
H. A. Hildreth, for sand screen		60		
Jacob Rogers, for level	1	35		
Joshua Merrill & Son, for plan book		0.0		
for sewers		00		
Alanson Nichols, for cement and brick, Cole & Nichols, for castings	141	00		
Howes & Burnham, for lumber		39		
H. & A. Whitney, for lumber		78		
			2,557	17
Paid for DAMAGES, &c.:				
1				
To Whithed & Shorey, per order of Com-				
mittee on Claims	150	00		
John F. McEvoy, for stamp on deed		F 0		
to Patrick Lynch		50		
witnesses in case of Emery vs. City				
of Lowell	86	50		
Charles P. Bowles, for cash paid out				
in summoning witnesses in case of				
Emery vs. City of Lowell	34	00	051	0.0
			271	UU

Amount brought forward	\$13,450	11
Paid for SUNDRIES:		
*To amount of Superintendent of Streets' bills 2,895 48		
	2,895	48
Whole expenditure for the year Balance undrawn January 1, 1872	16,345 3,916	
	\$20,261	72

^{*} Of this amount \$666.48 was expended in rebuilding the Sewer from Concord River to the South Common, making the total expenditure for the same for 1871, $\$11,\!288.42$.

COMMONS.

Balance undrawn January 1, 1871 \$ 385 73 Appropriated and assessed in 1871 3,500 00	\$3,885 73
RECEIPTS.	
*Received into the Treasury from various sources	688 50
	350 00
	\$4,924 23
EXPENDITURES.	
Paid for SUNDRIES:	
To Stephen C. Baker, for services as Police Officer, South Common 302 00 Bernard Conway, for services as Police	

204 00

103 00

1,027 98

810 60

13 66

2 98

7 12

Officer, North Common.....

Patrick Lynch, for services as Police Officer, North Common.....

Martin Cochran, for labor on South Common....

E. A. & A. T. Smith, for concrete walk, South Common....

E. A. & A. T. Smith, for concrete walk, North Common.....

A. L. Brooks & Co., for lumber.....

Howes & Burnham, for lumber.....

Amount carried forward \$2,471 34

^{*} See page 13.

[†] See expenditures for Roads and Bridges.

Amount brought forward	\$2,471	34		
Paid for SUNDRIES:				
To Merrill & Calef, for building fence,				
South Common	577			
Amos Colby, for repairing pump Robert B. Caverly, for shade trees,	16	50		
Centralville Heights	36	00		
staff	6	85		
Thomas P. Glover, for bolts		50		
Cole & Nichols, for castings Jacob Rogers & Co., for wheelbarrow,		44		
&c	1	50		
Fiske & Spalding, for labor on Com-	*	00		
mons	19	75		
Jonathan Kendall, for lead, oil, japan,	10	10		
&c	21	68		
Samuel N. Wood & Son, for grass seed,		72		
Knapp & Morey, for advertising booths,		$\frac{12}{25}$	<	
	1	20		
Marden & Rowell, for advertising	4	o.r		
booths	1	25	0 107	F 0
			$3,\!167$	90
To amount of Superintendent of Public	20	2.0		
Buildings' bills for the year	30	20	2.0	
To amount of Superintendent of Streets'		_	30	20
bills for the year	463	63		
			463	63
Whole expenditure for the year			3,661	22
Balance undrawn January 1, 1872			1,262	
Datance unurawn ganuary 1, 10/2			1,202	90
			\$4,924	93
		_	φ4,024	20
		-		

PRINTING AND ADVERTISING.

Balance undrawn January 1, 1871 Appropriated and assessed in 1871	\$ 329 3,000		
Transferred from Health Account	39	25	\$3,329 88
			39 25
			\$3,369 13
EXPENDITURI	ES.	-	
Paid Stone & Huse, printing (3,500 copies) Auditor's Report	770	73	
Bacheller, Dumas & Co., for binding (3,500 copies) Auditor's Report, Charles E. Field, for distributing	58	25	
(2,500 copies) Auditor's Report, Stone & Huse, printing (2,000 copies)	15	00	
Mayor's Address	139	09	
(2,000 copies) Mayor's Address, Stone & Huse, printing (325 copies,)	20	00	
Rules and Orders Bacheller, Dumas & Co., for binding (125 copies,) Municipal Regis-	161	25	
ter	18	50	
with names on side Bacheller, Dumas & Co., for binding (4 copies,) City Documents, in	9	87	
full calf	14	00	
on one side	1	00	
(193 copies,) City Documents Bacheller, Dumas & Co., for lettering (41 copies,) City Documents,	65	62	
on one side	10	25	

Amount carried forward..... \$1,283 56

Amount brought forward	\$1,283	56		
Paid Bacheller, Dumas & Co., for binding (1 Vol. each,) Lowell Daily Cour-				
ier and Daily Citizen and News. Bacheller, Dumas & Co., for binding	5	00		
and ruling Tax books, &c Samuel B. Simonds, for binding City	93	90		
Documents	17	69		
(1,300 copies) Mayor's Address Stone & Huse, printing and binding (2,000 copies,) Board of Health	6	50		
Reports	110	95		
Stone & Huse, for printing and advertising	422	38		
advertisingLowell Daily Courier, for two copies	517	08		
of Lowell Daily Courier from January 1, 1870, to Jan. 1, 1871, Marden & Rowell, for two copies of	13	00		
Lowell Daily Courier from Janu- ary 1, 1871, to January 1, 1872, Marden & Rowell, for printing and	13	00		
advertising	206			
Brown & Chase, for printing	161			
George H. Morse, for printing B. H. Penhallow, for printing Samuel A. McPhetres, for cash paid L. Prang & Co. for 1000 plans each of Mayor, Aldermen, and	194	50 00		
Common Council Rooms	45	00	3,103	06
*Paid for printing and advertising to Stone & Huse, Knapp & Morey, and Marden & Rowell, (small pox),	39	25		
		_	39	25
#D Just and the Condition of			3,142	31
*Deduct amount transferred to expense of Health Account, for small pox (as				
per resolution)	39	25	39	25
Whole expenditure for the year			3,103	06
			266	
Balance undrawn January 1, 1872			200	01

^{*}For particulars in detail, see Health Account.

LIGHTING STREETS AND PUBLIC BUILDINGS.

Appropriated and assessed in 1871	\$ 1,171 81 19,000 00	\$20,171 81	
RECEIPTS.			
Received of C.B.Coburn & Co.,(Overdraft)		1 00	
		\$20,172 81	

EXPENDITURES.

Paid for LIGHTING STREETS:

To Lowell Gas Light Company, for gas		
consumed in street burners during		
the year 1871, (719,933 hours, at		
1\frac{3}{8} cents per hour)	9,899	08
H. R. Barker & Co., for gas fittings,	0,000	00
	109	ຄຄ
labor, &c	183	ZZ
H. H. Wilder & Co., for lanterns,	4.0	0.0
lamps, repairing lanterns, &c	12	90
C. B. Coburn & Co., for glass, spirits		
turpentine, fluid, alcohol, wicking,		
sperm oil, varnish, burners, putty,		
paint, &c	255	45
Charles E. Adams, for street lamps,		
globes, &c	219	50
Mark C. Boynton, for oil	106	50
Lowell Machine Shop, for lamp posts.	314	43
Josiah Butler, for petroleum		64
F. S. Perkins, for iron, and repairing		-
lamp posts	6	22
John O'Brien, for eash paid for gas for	Ŭ	
lamp on Adams street, to Nov. 13,		
1871, (three years)	35	GA.
10.1, (mice years)	99	04
Amount carried forward	\$11.043	59
TIMO WILL DOLL TO CO JOI WOUT CO	• 411,040	00

Amount brought forward	\$11,048	3 5	8	
Paid for LIGHTING STREETS:				
To Lowell Gas Light Co., for labor setting				
lamp posts		00		
Thomas P. Glover, for iron hooks		30		
Wright, Bird & Co., for repairing				
wagon	72	61		
S. L. Butman, for blankets, repairing				
harnesses, &c	19	30		
Weare Clifford, for cash paid out for	,	0.0		
waste	4	92		
Fiske & Spalding, for painting and	10	70		
gilding lanterns, &c	13	70		
Brown & Carter, for painting and lettering lanterns	6	18		
Buttrick & Co., for matches, dusters,	U	10		
broom, soap, &c	23	00		
Robert Wood, for medicine and medi-	20	00		
cal attendance of horse	15	00		
Daniel Crowley, for pasturing horse	12			
D. S. Wood, for horse keeping	6			
Mark C. Boynton, labor lighting	902	50		
Mark W. Boynton, labor lighting	309			
Charles E. Dodge, labor lighting	91			
William T. Keniston, labor lighting	65			
Willie R. Mooney, labor lighting	47			
Charles E. Munn, labor lighting	198			
George G. Rogers, labor lighting	7			
Charles W. Taylor, labor lighting	30			
Frank W. Starbird, labor lighting	40	90		
Weare Clifford, for cash paid for light- ing streets	6	۸۸		
Amount of Superintendent of Streets'	0	00		
bills for the year	517	00		
one year			13,435 1	8
			10,100 1	. •
Paid for LIGHTING PUBLIC BUILD-				
INGS:				
To Lowell Gas Light Co., for gas	2,071	56		
American improved Gas Light Co.,				
(for Police Station)	143	30		
-			2,214 8	66
Whole expanditure for the ween			15 050 0	_
Whole expenditure for the year Balance undrawn January 1, 1872			$\begin{array}{c} 15,650 & 0 \\ 4,522 & 7 \end{array}$	
Darance undrawn sandary 1, 1072			4,022 1	-
			\$20,172 8	1
			\$20,1.2 O	-

REPAIRS OF PUBLIC BUILDINGS.

Balance undrawn, January 1, 1871 Appropriated and assessed in 1871	\$5,091 3,000		\$8,091	57
RECEIPTS.				
*Received into the Treasury, from various sources	50	94		
†Received from the Appropriation for Police, for lumber, nails, oil, &c †Received from the Appropriation for	15	93		
Water Works, for lumber, labor, &c	17	85		
Fire Department, for lumber, nails, &c	8	49		
Roads and Bridges, for stove	2	00	95	21
			\$8,186	78
EXPENDITUR	ES.	=	\$8,186	78
EXPENDITURE Paid for SUNDRIES:	ES.	=	\$8,186	78
Paid for SUNDRIES: To H. R. Barker & Co., for brackets, couplings, felting, fusible tubes, repairing steam pump, boilers, pipe,		=	\$8,186	78
Paid for SUNDRIES: To H. R. Barker & Co., for brackets, couplings, felting, fusible tubes, repairing steam pump, boilers, pipe, labor, &c	211 21	77	\$8,186	78
Paid for SUNDRIES: To H. R. Barker & Co., for brackets, couplings, felting, fusible tubes, repairing steam pump, boilers, pipe, labor, &c	211 21 10	77	\$8,186	78
Paid for SUNDRIES: To H. R. Barker & Co., for brackets, couplings, felting, fusible tubes, repairing steam pump, boilers, pipe, labor, &c D. M. Prescott & Co., for whitening, &c M. C. Page, for mason work	211 21 10 7	77 99	\$8,186	78

^{*}See page 13.

[†] See expenditures for those Appropriations.

Amount brought forward	\$257	49
Paid for SUNDRIES:		
To Thomas P. Glover, for hinges, repair-		
ing chisels, &c	5	75
S. G. Mack & Co., for repairing ventil-		
ator, lead pipe, &c	13	22
J. W. Nash & Co., for stove and pipe,	10	33
H. H. Wilder & Co., for brass, lead,		
charcoal, labor, &c	82	40
Adams & Co., for rug, oil carpeting,		
chairs, &c	18	
Benner Brothers, for chairs and cord		00
George Thatcher, for repairing clock.	1	25
A. L. Brooks & Co., for lumber and	0.1	20
sawing Howes & Burnham, for lumber	31	
	598	57
H. & A. Whitney, for lumber A. Bachelder & Co., for planing, saw-	09	01
ing, &c	9	00
Crosby Furniture Co., for mouldings		63
E. W. Hall, for rubber moulding and	•	•
weather strips	13	35
M. C. Pratt & Co., for planing, saw-		
ing, mouldings, lumber, teaming,		
&c	64	56
G. N. Trowbridge & Son, for turning		
acorns, table legs, &c	1	75
J. P. Slocum, for inspecting steam	_	
boiler		00
Jacob Rogers & Co., for hardware		47
Fielding & Bartlett, for hardware	7	13
Chase, Sargent & Shattuck, for hard-	9.0	4.4
Charles E. Adams, for hardware		44 50
Charles E. Adams, for hardware Amos Colby, for pump, (Market House)	9	56 00
Buttrick & Co., for wash-tub and	J	UU
matches	2	85
Josiah Gates & Sons, for hose, coup-	-	00
lings and blunderbuss, (for City		
Stable)	126	00
John H. Nichols, for eash paid out for		
taking up and cleaning carpet in		
Council Room		50
G. F. Witherell, for marble slab	2	10
Amount carried forward	\$1,484	76

Amount brought forward	\$1,484	76	. #
To Robert Goulding, for repairing roof, Huntington Hall building	5	36	
William Waugh, for repairing roof,	Ü	00	
Huntington Hall building, &c C. B. Coburn & Co., for glass, white	30	16	
lead, sea line, brushes, hemp cord, baskets, shellac, &c Jonathan Kendall, for oil, spirits tur-	103	45	
pentine, varnish, glue, brushes, alcohol, stencil letters, twine, glass, oil can, putty, &c	64	18	
Fiske & Spalding, for painting and gilding acorn, graining, varnishing,			
&c	38		
H. A. Hildreth, for wire cloth Henry C. Church, for waste and sta-		13	
tionery		53	
Abel Whitney, for record book Appropriation for Schools, for brooms,		$\frac{25}{74}$	
Appropriation for School-houses, for glass	1	12	
lumber	7	50	
Health Account, for stoves	6	00	
Γο amount of Superintendent of Public			1,755 06
Buildings' bills, for the year	984	45 —	984 45
To amount of Superintendent of Streets' bills, for the year	6	50	,
-		_	6 50
Whole Expenditure for the year			2,746 01
Salance undrawn January 1, 1872			5,440 77
			\$8,186 78

CITY LIBRA Y.

Balance undrawn January 1, 1871 \$2,502 03 Appropriated and assessed in 1871 500 00		03
RECEIPTS.		
*Received into the Treasury, from various sources	668	30
	1,486	80
	\$5,157	13
EXPENDITURES.		
Paid Marshall H. Clough, Librarian, (salary)	1,000	00
To F. P. Coggeshall, for books 293 09		
Joshua Merrill & Son, for books and binding		
Amounts carried forward \$759 75	\$1,000	00

^{*} See pages 13 and 14.

Amounts brought forward	\$759	75	\$1,000	00
To Bacheller, Dumas & Co., for binding,				
ruling, &e	101	36		
S. B. Simonds, for binding books	33	30		
Henry C. Church, for ink		75		
C. B. Coburn & Co., for manila paper,	10	26		
Brown & Chase, for printing	6	25		
Marshall H. Clough, for dextrine, adhe-				
sive paper, postage stamps, express-				
age, &e	48	03		
Lowell Mutual Fire Insurance Co., for				
insurance, (policy terminating Jan-				
uary 1, 1876)	30	00		
Howes & Burnham, for lumber for al-				
eoves, (Masonic Temple)	370	22		
-		_	1,359	92
Whole Expenditure for the year			2,359	92
Balance undrawn January 1, 1872			2,797	
			\$5,157	13

SALARIES.

Balance undrawn January 1, 1871 Appropriated and assessed in 1871	\$ 646 16,000			
			\$16,646	81
EXPENDITUR	ES.	=		
Paid to Edward F. Sherman, Mayor	1,500	00		
John H. McAlvin, Treasurer and	2,000	00		
Collector	2,500	00		
John H. McAlvin, for clerk hire	300	00		
Samuel A. McPhetres, City Clerk,	2,000	00		
George Gardner, Auditor and				
Clerk of Common Council	2,000	00		
John F. McEvoy, City Solicitor	1,000	00		
Lorenzo G. Howe, Superintendent				
of Public Buildings	1,500	00		
Calvin Philbrick, Messenger to				
the City Council	97	04		
John H. Nichols, Messenger to				
the City Council	902	96		
Walter H. Leighton, City Phy-				
sician and Superintendent of	700	0.0		
Burials	700	00		
George E. Stanley, Inspector of Milk	0.5	00		
Sylvester Crosby, Pound Keeper.	25			
John A. Knowles, Jr., Sealer of	25	00		
Weights and Measures	300	00		
Caleb M. Marvel, Chairman of the	900	00		
Board of Assessors	600	٥٥		
Francis Goward, Assessor	550			
Benjamin Goddard, Assessor	550			
Darius Whithed, Assessor	550			
James Marren, Assessor	550			
Board of Assessors, for Clerk hire	350			
Abijah Cutter, Fish Warden		75		
Whole expenditure for the year		_	16,003	- 75
Balance undrawn January 1, 1872			643	
, , , , , , , , , , , , , , , , , , , ,			040	
			\$16,646	81

SETTING TREES.

Balance undrawn January 1, 1871	81 87		
		81	87
Expenditure		00	0 0 -
Balance undrawn January 1, 1872	•	\$81	87

CITY DEBT.

J ,	15 89	12,045	89
RECEIPTS.			
*Received into the Treasury from various sources	0 00	26,000	00
	=	\$38,045	89
PAYMENT.			
Paid to City Institution for Savings 10,50	0 00		
Total amount of payment in 1871 Balance undrawn January 1, 1872		$10,\!500$ $27,\!545$	
	\$	\$38,045	89

^{*} See page 14.

INTEREST ON CITY DEBT.

Appropriated and assessed in 1871	\$ 7,889 6 26,000 0	0
Received from Commonwealth, for interest on State Tax, paid before tax was		- \$33,889 66
due	417 6	8 417 68
		\$34,307 34
PAYMENTS.	•	
*Paid to City Institution for Savings	12,986 8	6
Estate of Thomas Nesmith	300 6	0
Salem Savings Bank	2,500 0	0
†Lowell Institution for Savings. Mechanics' Savings Bank, (of	5,160 0	0
Lowell)	2,275 0	0
Lowell Five Cents Savings Bank,	1,100 0	0
Boston Five Cents Savings Bank,	6,000 0	0
Trustees of Thomas Nesmith	780 0	0
Amount of interest on ordinary City Debt		-
for 1871		31,102 46
Balance undrawn January 1, 1872		3,204 88
		\$34,307 34

^{*}An increase of \$209.01 in consequence of the interest being paid at gold rates. †An increase of \$180.00 in consequence of the interest being paid at gold rates.

INTEREST ON WATER WORKS.

PAYMENTS.

Paid Merchants National Bank, on Water		
Loan Bonds	\$5,760	00
On Lowell Water Loan Bonds (cou-		
pons)	210	00
On Lowell Water Loan Bonds (cou-		
pons)	30	00
On Lowell Water Loan Bonds (cou-		
pons)	15,000	00
Lowell Institution for Savings, (on		
note)	6,000	00

\$27,000 00

CARNEY MEDAL FUND.

\$200 00

\$200 00

Undrawn January 1, 1872.....

\$200 00

*One Hundred dollars was donated August 24, 1858, and accepted by the City Council September 14, 1858, and One Hundred dollars additional, July 15, 1859, and accepted July 26, 1859. For the information of the citizens of Lowell, the Auditor respectfully refers them to the "Annual Report of the School Committee," for the year 1859, where all the correspondence between the donor and the recipient may be found.

TEMPORARY LOAN.

\$88,000 00

STATE AID

FOR DISABLED SOLDIERS AND SAILORS, &e.

Paid to Disabled Soldiers and Sailors and their Families, and for the Families of the Slain, under an Act of the Legislature of the Commonwealth, chapter 172, approved April 23, 1866, (as per resolution of the City Couneil):				
Due from the Commonwealth January 1, 1871	\$43,256	66	\$43,256	66
RECEIPTS.				
*Received into the Treasury from various sources	31,333	64	31,333	64
			11,923	02
EXPENDITURE	es.			
To amount paid as per Resolution, 1871 Mrs Paul Dillingham, (aid for 1870) Mrs. D. W. Waterman, (aid for 1870).	20,304 7 8	74	20,321	14
Due January 1, 1872			\$32,244	16
			,, - ,	

^{*}See page 15.

CORPORATION TAX.

Balance unappropriated January 1, 1871.	\$14,045	12	\$14,045	12
RECEIPTS.				
Received from Commonwealth, for Taxes on Corporation Stocks collected by the State for 1870 Received from the Commonwealth for Taxes on Corporation Stocks col-	2,083	03		
lected by the State, for 1871	24,954	95	27,037	98
			\$41,083	10
TRANSFER				
Transferred to Health Account	28,000		28,000	00
Balance unappropriated January 1, 1872.	13,083	10	13,083	10
			\$41,083	10

COMMONWEALTH NATIONAL BANK TAX.

Paid Commonwealth National Bank Tax for 1871..... \$18,562 53

\$18,562 53

TAXES.

The amount of Taxes assessed on the Polls and on the Real and Personal Estate, in the City of Lowell, for the year 1871, was as follows:

VALUATION OF REAL AND PERSONAL PROPERTY.

Of Corporations, \$12,612,700 Residents 12,192,260 Non-Residents, 1,362,170 Shares of Stock owned in Banks	00	66	"	"	\$199,280 192,637 21,522	69
by Residents of Lowell1,644,223	00		"	46	25,978	72
\$27,811,353	00				\$439,419	35
Number of Polls, 9,186, at \$	2.00)	• • • •		18,372	00
					457,791	35
Add Bank Tax on Non-Resid were not added to the					21,256	79
Total amount of Taxes asses	sed	in 1871	• • •		\$479,048	14
Of this amount \$51,850. the State Tax.	00 v	vent to pay	the	City's p	roportion	of
The City's proportion of the	Cou	inty Tax for	18	71 was	\$21,108	07
The number of Polls, in 1871 The number of Polls, in 1870						
Increase over 1870		•••••	• • • •	. 609		

Amount of Taxes assessed in 1871 \$479,048 14
Amount of Taxes collected of the assess-
ment of 1871, was \$467,863 79
THERE OF 10/1, was with according
*Amount of Taxes abated on the assess-
ment of 1871, by the Assessors,
prior to January 1, 1872, before col-
lection, as per their report, was 887 89
468,751 68
Leaving the amount of Taxes uncollected (assessed in
1871), due January 1, 1872 \$10,296 46
10/1), and sandary 1, 10/2 , , , , ,
3
APPROPRIATED AND ASSESSED IN 1871:
For the ordinary expenses of the City \$375,000 00
For State Tax
For County Tax
For Overlays (or apportionment)
For Bank Tax on Non-Residents, assessed, and which
were not added to the valuation of the City 21,256 79
Total amount of Taxes on Property and Polls \$479,048 14
Amount of Torses was Booted (seeseed in 1960) due
Amount of Taxes uncollected (assessed in 1869) due
January 1, 1871
Amount collected in 1871, of the Taxes of 1869 81 20
Amount of Taxes uncollected (assessed in 1869) due
January 1, 1872
V /
Amount of Taxes uncollected (assessed in 1870) due
January 1, 1871
Amount collected in \$1871, of the Taxes
of 1870 \$3,021 49
Amount of Taxes abated on the assessment
of 1870, by the Assessors, prior to
January 1, 1872, before collection,
as per their report, was 153 95
3,175 44
Leaving the amount of Taxes uncollected (assessed in
. 1870) due January 1, 1872 \$3,602 29

^{*}For abatements made after collection of Taxes, see Reserved Fund.

WATER WORKS.

Balanee undrawn January 1, 1871..... \$100,985 86

J , , , , , , , , , , , , , , , , , , ,		_	\$100,985	86
RECEIPTS.				
*Received into the Treasury from various sources	611,372	34	611,372	24
Sold to Merchants' National Bank, Low- ell Water Bonds, in Nov., 1870, dated Nov. 1, 1870, numbered 1 to			011,572	94
200 inclusive	200,000	00		
Received of the above Bank on the same, in Nov., 1870	195,000	00		
Add discount on above Bonds, sold 2½ per cent. less par	5,000	00		
			5,000	00
			\$717,358	20
EXPENDITUR	ES.			
Paid Merchants' National Bank, for interest on Lowell Water Loan Bonds Merchants' National Bank, for dis-	5,760	00		
eount on sale of \$200,000 Lowell				
Water Loan Bonds, dated Nov. 1, 1870	5,000	00		
Water Loan Bonds, dated Nov. 1, 1870 Interest on Lowell Water Loan Coupons	5,000 210			
Water Loan Bonds, dated Nov. 1, 1870 Interest on Lowell Water Loan Coupons Interest on Lowell Water Loan Coupons		00		
Water Loan Bonds, dated Nov. 1, 1870 Interest on Lowell Water Loan Coupons Interest on Lowell Water Loan Coupons	210	00		

^{*}See pages 16, 17 and 18.

Amount brought forward	\$32,000	00	
Paid Merchants' National Bank, discount for interest on sale of \$100,000 Lowell Water Loan Bonds	1,500	00	\$33,500 00
Paid for LAND:			
To E. S. Davis, for land corner Beacon and Sixth Streets	600	00	
lyn and Sixth Streets	700	00	
Daniel Saunders, Jr., for land in Dracut for filter gallery purposes	600	00	
Jason Goodhue, for land Beacon Street	2,397	25	
StreetGeorge Holden and Wm. W. Warren,	4,500	00	
for land Beacon Street Samuel N. Wood, for land corner Sixth	350	35	
and Beacon Streets Eleanor Goding, for land Beacon	614	63	
Street Levi Sprague, for land on Beacon	593	82	
Street E. P. Woods, for land on West Sixth	38	46	
Street	174		
Patrick Cummiskey, for land in Dracut,	1,050	00	11,619 31
Paid for SUNDRIES:			,
To Water Commissioners, Engineers, Engineering Expenses, Office Expenses, including rent, furniture, and stationery, printing and advertising, labor, &c	578,982		*578,982 50
Amount carried forward	• • • • • • • • • • • • • • • • • • • •		

^{*}See Water Commissioners' Second Annual Report for items in detail.

Amount brought forward	\$624,101,81
Paid Appropriation for Repairs of Public Buildings, for lumber, labor, &c Paid Bickford Lang, cash paid out summoning witnesses in the hearing on Injunction on the City Treasurer.	17 85
against paying expenses of hearing on investigation	32 00 49 85
Whole expenditure for the year Balance undrawn January 1, 1872	†\$624,151 66 93,206 54
	\$717,358 20
†Expended in 1871 Expended in 1870	\$624,151 66 95,057 00
Cost of construction of Water Works up to January	1, 1872\$719,208 66

FIRE ALARM TELEGRAPH.

Appropriated and assessed in 1871		\$15,000 00
Transferred to Appropriation for Fire Department	32 26	, , , , , , , , , , , , , , , , , , , ,
		32 26
		\$14,967 74

EXPENDITURES.

Paid to Gamewell & Co., for construction		
of Fire Alarm and Police Tele-		
graph, as per contract	14.500	00
Gamewell & Co., for compound	,	
wire, insulators, brackets, poles,		
battery and labor	151	81
Addison Putnam, for cash paid		
for expenses of Committee to		
Charlestown, Boston and Cam-		
bridge	63	60
Brown & Chase, for printing	87	75
C. P. Talbot & Co., for blue vitriol,	33	21
Jonathan Kendall, for alcohol,		
plaster pans, &c	1	27
H. R. Barker & Co., for brass fix-		
tures		90
H. H. Wilder & Co., for hose		
couplings, lead pipe, solder, lan-		
tern, soap stone sink, labor, &c.	51	79
M. C. Pratt & Co., for lumber	4	72
Fiske & Spalding, for shades, tas-		
sels and cord	4	10
Fielding & Bartlett, for oil cans		
and hardware	6	29
T. H. Curtis, for keys		50
Chase, Sargent & Shattuck, for		
hardware		50
Amount carried forward	.\$14,906	44

Amount brought forward	\$14,906	44		
Paid to Puffer & Bradley, for oil carpeting, Benner Brothers, for marble top	39	30		
table	13 3			
G. S. Hatch, for strap	1	00		
J. E. Conant, for barouche		00		
Whole expenditure for the year			\$14,967	74

REBUILDING PAWTUCKET BRIDGE.

Appropriated and assessed in 1871 \$18,000,00

Appropriated and assessed in 1871 \$18,000 00	
	\$18,000 00
EXPENDITURES.	
Paid to E. F. Sherman, for cash paid out	
for expenses of Committee to	
Fitchburg, to examine bridges. 20 00	
Joshua Merrill & Son, for record	
book 1 25	
Offutt & Whitaker, for lanterns 5 00	
French & Puffer, for lanterns, lan-	
tern globes, lamp globes, oil can,	
kerosene oil, &c	
Albert Wheeler, for kerosene oil and	
can	
Fiske & Spalding, for lantern and	
lettering cloth 11 80	
N. G. Furnald, for examining bridge, 18 00	
John W. Smith, for each paid out in	
case of Louisa F. Butler's claim. 6 25	
Blodgett & Curry, on account of	
contract for rebuilding bridge *13,000 00	
Whole Expenditure for the year	13,127 26
Balance undrawn January 1, 1872	4,872 74
	\$18,000 00

^{*5,000} additional to be paid on completion of contract.

HEALTH ACCOUNT.

Amount received of the City Treasurer by the Chairman of the Board of Health, as per Resolutions of the City Council, passed Oct. 5th and				
Nov. 14th, 1871	\$4,000	00		
Transferred from Corporation Tax Account	28,000	00	\$ 4,000	
RECEIPTS.			,	
Received of the Town of Dracut, for board and medical attendance of Mary Clancy, at small pox Hospital	17	14		
				14
*Received from the Appropriation for Repairs of Public Buildings, for stoves, *Received from Appropriation for Schools,	6	00		
for stove, pails, lanterns, &c	33	25		
*Received from Reserved Fund, for ink- stands, spittoons, &c	16	32	55	57
			\$32,072	71
EXPENDITURI	ES.			
Paid by direction of FIRST BOARD OF HEALTH, on account of SMALL POX:				
To James Daly, for vaccinating persons in Ward One.	265	50		
Walter H. Leighton, for vaccinating persons in Ward Two Franklin Nickerson, for vaccinating	572	25		
persons in Ward Three	239	25		
Amount carried forward	\$1,077	00		

 $[\]ast$ See expenditures for those Appropriations.

	,		
Amount brought forward	\$1,077 0	0	
Paid by direction of FIRST BOARD OF HEALTH, on account of SMALL POX:			
To A. M. Ballard, for vaccinating persons in Ward Four	317 2	5	
Charles B. Saunders, for vaccinating persons in Ward Five	296 0	0	
L. S. Fox, for vaccinating persons in Ward Six	382 7		00
		- *2,073	00
To Walter H. Leighton, for cash paid out for nurse sent to Hospital Mrs. Ann Barnes, for board of Wm.	7 0	0	
Tarbuck's children	4 0	0	
Patrick Cummiskey, for whiskey	15 0	0	
C. P. Talbot & Co., for chloride of lime	1 0	0	
		- *27	00
To Amos S. Brown, for teaming	21 2	5	
Luke C. Dodge, for tarred rope	9 9	-	
C. P. Talbot & Co., for chemicals	144 5	1	
Wm. Rierdon, for labor	15 0	0	
John McLaughton, for labor	17 2	5	
C. R. Kimball, for carbolic acid, &c William McCarty, for burying infected	14 2	0	
bedding, &c	15 5		
Peter Creighton, for police services	211 5		
Alfred Day, for police services	82 5	0 - *531	61
To Stone & Huse, for advertising	3 5		-
Knapp & Morey, for advertising	12 5		
Marden & Rowell, for printing and ad-	12 0		
vertising	23 2	5	
-		- *39	25
Amount carried forward	••••	2,670	86

^{*}See accounts of Reserved Fund, Paupers, Police, Printing and Advertising of expenditures.

$Amount \ brought \ forward$	• • • • • • •	• • •	. \$2,670 86
Paid under the direction of THE			
BOARD OF HEALTH, on acc't			
of SMALL POX:			
•			
To E. B. Aldrich, for vaccinating	331	75	
Nathan Allen, for services as consult-			
ing physician		00	
Nathan Allen, for vaccinating		00	
A. M. Ballard, for vaccinating		50	
A. M. Ballard, for medical services	152	00	
Walter Burnham, for services as con-	900		
sulting physician		00	
Walter Burnham, for vaccinating	206	z_{0}	
Abner W. Buttrick, for medical ser-	9.00	00	
vices	360		
Abner W. Buttrick, for vaccinating		00	
J. Daly, for vaccinating		$\frac{00}{50}$	
Hanover Dickey, for vaccinating	02	90	
John H. Gilman, for services as con-	601	0.9	
sulting physician		$\frac{32}{50}$	
John H. Gilman, for vaccinating	99	90	
John W. Graves, for services as con-			
sulting physician, and for profes-	900	00	
sional servicesJohn W. Graves, for vaccinating		00	
Edward H. Hoskins, for professional	11	00	
services	60	00	
Gilman Kimball, for services as con-	00	00	
sulting physician	350	00	
Gilman Kimball, for vaccinating		00	
A. W. Lavigne, for vaccinating	783		
Walter H. Leighton, for vaccinating.	241		
Franklin Nickerson, for vaccinating	100		
George C. Osgood, for vaccinating	450		
E. H. Packer, for vaccinating	393	50	
E. H. Packer, for cash paid for cow			•
pox virus	47	00	
Hiram Parker, for services as consult-			
ing physician	325	00	
Hiram Parker, for vaccinating	210	00	
Moses G. Parker, for vaccinating	711	50	
John W. Pearson, for vaccinating	400	50	
George H. Pillsbury, for vaccinating.	154	00	
George E. Pinkham, for vaccinating	229	25	
Francis C. Plunkett, for services as			
consulting physician	350	00	

Amounts carried forward	\$8,552	17	\$2,670 86

Amounts brought forward	\$8,552	17	\$2,670	86
Paid under the direction of THE BOARD OF HEALTH, on acc't of SMALL POX:				
To Francis C. Plunkett, for vaccinating	160	00		
E. D. St. Cyr, for vaccinating	189			
Charles B. Sanders, for fumigating,	100			
and professional services	235	00		
Joseph H. Smith, for vaccinating	314	00		
W. H. Warn, for vaccinating	413	25		
David Wells, for consultation in case				
of varioloid		00		
F. & E. Bailey, for medicines, &c	153			
Carleton & Hovey, for medicines, &c.		37		
Chas. I. Hood & Co., for medicines, &c.	37			
E. W. Hoyt & Co., for brandy, &c C. R. Kimball, for medicines, &c		86		
Joseph Plunkett, for wine, whiskey, &c.	15 19			
C. P. Talbot & Co., for chemicals	122			
Merrimack Manufacturing Co., for	122	• 1		
chemicals	107	11		
B. F. Bachelder, for use of horse and				
carriage	182	25		
George W. Norris, for use of horse and				
, carriage	109	00		
H. O. Morse, for use of horses and car-				
riages	6 3	00		
Joseph L. Noyes, for use of horses and	0.5			
carriage	37	50		
D. G. Leavitt, for use of horse and	10	50		
F. S. Smith, for use of horses	12	00		
Howes & Burnham, for lumber, (Hos-	J	00		
pital)	1,420	94		
A. L. Brooks & Co., for lumber (Hos-	-,	~ ~		
pital)	279	56		
J. W. Bennett, for carpenter-work and				
roofing, (Hospital)	529	12		
William Kelley, for doors, window				
frames, &c., (Hospital)	149			
Merrill & Catef, for labor, (Hospital).	223			
Wm. H. Wiggin, for labor, (Hospital) H. C. & J. F. Howe, for door frames,	38	50		
(Hospital)	7	00		
(1105p1var)				
Amounts carried forward	.\$13,393	87	\$2,670	86

Amounts brought forward	\$13,393	87	\$2,670	86
Paid under the direction of THE				
BOARD OF HEALTH, on acc't				
of SMALL POX:				
To James Howard, for window frames and				
sashes, (Hospital)	4	00		
Orlando Snell, for labor, (Hospital)	18			
V. L. Wilson, for labor, (Hospital)	57			
L. G. Howe, for cash paid out for la-	0.	10		
bor, (Hospital)	Λ	00		
		75		
H. F. Howe, for labor, (Hospital)	40	00		
John Cuddy, for labor, (Hospital)				
George Kingston, for labor, (Hospital)		75		
S. C. Baker, for labor, (Hospital)	88			
F. P. Jacobs, for labor, (Hospital)	31	50		
George W. Pearson, for labor, (Hos-				
pital)	44	62		
Warren C. Crosby, for cement pipe and				
labor, (Hospital)	34	45		
H. R. Barker & Co., for pipe, pump,				
labor, &c., (Hospital)	78.	40		
Jacob Rogers & Co., for hardware,				
(Hospital)	159	29		
Stanley & Co., for carrying men to				
Hospital (for labor)	38	00		
Peter Brady, for teaming lumber,	30	00		
(Hospital)	6	50	•	
Michael Brady, for teaming lumber,	O	6)0		
	12	50		
(Hospital)	40	90		
Jonathan Kendall, for oil, lead, glass,	9.5	4.4		
&c., (Hospital)		44		
Prosper Laro, for labor, (Hospital)		00		
John Marce, for labor, (Hospital)	15	25		
Lorenzo G. Howe, for extra services,				
including labornights and Sundays,				
in erecting new Hospital	75	00		
S. G. Mack & Co., for stoves, pipe,				
boiler, tin-ware, &c., (Hospital)	268	17		
T. Costello & Co., for stove, funnel,				
tin-ware, &c., (Hospital)	134	20		
Martin & Strong, for coffee-boiler and				
waiters, (Hospital)	5	25		
Chase, Sargent & Shattuck, for clothes				
wringer, (Hospital)	7	00		
, , , ,				
Amounts carried forward	\$14,647	44	\$2,670	86
	, , , , ,		, , , ,	

Amounts brought forward	\$14,647	44	\$2,670 8	36
Paid under the direction of THE BOARD OF HEALTH, on acc't of SMALL POX:				
To N. J. Wier & Co., for oil can, (Hos-				
pital)	1	75		
C. B. Coburn & Co., for sperm oil and can (Hospital)	2	15		
Alfred Barney, for baskets and pails	_	10		
(Hospital)		50		
Adams & Co., for furniture, (Hospital)	861	27		
Benner Brothers, for furniture, (Hospital)	91	60		
pital)	0.1	00		
(Hospital)	457	42		
Herbert A. Boynton, for crockery,	*0	0.0		
glass-ware, &c., (Hospital)	59	03		
French & Puffer, for lamps, signal lanterns, oil, wicking, &c	6	72		
J. E. Griffin, for one pump, (Hospital)	12			
William Fiske, for comforters, (Hos-	400			
pital)	190	80		
Samuel Horn & Co for soap, (Hospital)	8	41		
D. W. Horne & Co., for coal, (Hos-	Ŭ.			
pital)	35			
William Kittredge, for coal, (Hospital)	10	50		
A. F. Wright, for provisions, (Hospital)	452	97		
Rice & Bailey, for provisions, (Hospi-	102	•		
tal)		24		
George Flint, for milk, (Hospital)	154	96		
A. C. Wright & Co., for groceries, (Hospital)	621	29		
F. H. Chandler, for grocerics, (Hospi-	021	20		
tal)	203	64		
Buttrick & Co., for groceries, (Hospi-		9.0		
J. & J. M. Pearson, for groceries,	99	36		
(Hospital)	2	62		
Patrick Keyes, for groceries, (Hospi-				
tal)	1	89		
M. B. Randlett, for fish, oysters, &c., (Hospital)	39	38		
•				
Amounts carried forward	\$17,972	19	\$2,670 8	86

Amounts brought forward	\$17,97	2 19	\$2,670	86
Paid under the direction of THE BOARD OF HEALTH, on acc't of SMALL POX:				
To R. R. Higgins & Co., for fish, (Hospi-				
tal)	4	85		
S. A. Scripture & Co., for bread,				
(Hospital)	152	83		
H. Hosford & Co., for dry goods,				
(Hospital)		53		
J. N. Marshall, for professional advice	125	00		
D. S. Taylor, for services serving war-	0.0	00		
Ints C. Dodge for towed and		00		
Luke C. Dodge, for tarred rope	- 1	40		
A L. Ready, for tarred rope and can-	26	29		
Wm. P. Brazer & Co., for one box		00		
John H. Nichols, cash paid for tele-	_			
grams		70		
Henry C. Church, for stationery	54	51		
F. P. Coggeshall, for General Stat-				
utes	3	75		
Stone & Huse, for printing and adver-	0.0	25		
tising	99	25		
Knapp & Morey, for printing and ad-	83	ġ ² 7		
vertising Marden & Rowell, for printing and	00	01		
advertising	153	99		
W. S. Simons, for posting notices		00		
Wm. McCarty, for removing bedding				
in night time	41	75		
John McLaughlin, for labor cleaning				
filth from streets	31	50		
Michael Brady, for labor cleaning filth	0	~^		
from streets	2	50		
James Reardon, for removing filth from streets	1.8	00		
Thomas Kerwin, for removing filth	10	00		
from streets	1	25		
H. R. Barker & Co., for couplings,				
burners, pipe, labor, &c	6	92		
Thomas P. Glover, for sign irons	1	00		
H. W. Hilton & Co., for red damask		0.1		
and cotton	8	01		
Amounts carried forward	\$18.949	09	\$2,670	86
Timo and our row jor war a	W10,010	00	W2,010	00

Amounts brought forward...... \$18,949 09 \$2,670 86

Paid under the direction of THE

BOARD OF HEALTH, on acc't				
of SMALL POX:				
To Alfred Gilman & Son, for hemming				
table covers		60		
Folsom & Tucker, for dry goods	4	42		
Fiske & Spalding, for painting and				
lettering sign board	5	00		
Abner Kittredge, for painting	2	07		
H. Hosford & Co., for crash	1	10		
Jacob Rogers & Co., for hardware		65		
George Thatcher, for clock		00		
C. H. Kelley, for whitewashing		80		
Bennett & Rodliff, for coal		00		
Lowell Gas Light Co., for gas		34		
James Kent, for rent of office		17		
J. B. Currier, for interments		00		
Appropriation for Paupers, for hay	46	46		
Appropriation for Schools, for cup-				
board	6	00		
Charles P. Bowles, for cash paid out				
for funigating houses, burying in-	1.0	0.0		
fected bedding, and removing filth,	18	00		
Matthew McKennif, for services as	1.01	00		
nurse	161	00		
nursing of Frank and Lucy Mc-				
Mahan	12	25		
Julia Fitzgerald, for services as nurse		58		
Hannah Mahoney, for clothing de-	00	00		
stroyed	11	80		
J. J. Farrell, for bedding destroyed		00		
Michael Lee, for clothing, &c., de-	O			
stroyed	37	52		
John D. Emerson, for bedding destroy-		-		
ed	50	25		
Joseph W. Tapley, for services as spe-				
cial police	7	50		
Ezra Aldrich, for services as policeman,	11	25		
George E. Bailey, for services as po-				
liceman	30	00		
F. Barrows, for services as policeman,	46	25		
C. H. Berry, for services as policeman,	20	00		
Amounts among the 3	010 501	10	#2.0F0	0.4
Amounts carried forward	\$19,581	10	\$2,670	86

Amounts brought forward	\$19,581	10	\$2,670	86
Paid under the direction of THE BOARD OF HEALTH, on acc't of SMALL POX:				
To H. A. Balcom, for services as police-				
W. P. Pottage for remiser or relies	12	50		
W. R. Butters, for services as police-	17	50	•	
Bernard Callahan, for services as po-				
liceman	12	50		ŧ
James M. Claffin, for services as policeman	36	25		
Thomas H. Clough, for services as po-				
liceman	52	50		
Warren Clough, for services as policeman	16	25		
Neal Cotton, for services as policeman,		00		
Peter Creighton, for services as police-	ดา	25		
Robert Dawson, for services as police-	21	20		
man	66	25		
Joseph Donnelly, for services as police-	10	75		
James Driscoll, for services as police-	10	10		
man		25		
C. M. Edson, for services as policeman,	67	50		
Charles Elvin, for services as policeman	20	00		
G. F. Emerson, for services as police-				
George Fairgrieve, for services as po-	10	00		
liceman	13	75		
Charles P. Foster, for services as po-				
John F. Gaffney, for services as police-	35	63		
man	9	38		
G. M. Gale, for services as policeman,	32			
J. B. Gilbert, for services as policeman, J. S. Hutchins, for services as police-	102	50		
man · · · · · · · · · · · · · · · · · · ·	28	75		
H. H. Johnson, for services as police-				
man	31	25		
liceman	22	50		
Charles Kent, for services as policeman,	6	25		
Amounts carried forward	\$20,281	11	\$2,670	86
	,		« - , · ·	

Amounts brought forward	\$20,281	11	\$2,670 86
Paid under the direction of THE BOARD OF HEALTH, on acc't of SMALL POX:			
To N. M. Lamson, for services as police-			
man · · · · · · · · · · · · · · · · · · ·		00	
S. H. Lee, for services as policeman. H. Livingston, for services as police-	16	25	
man	20	00	
James Litchfield, for services as police-			
man	6	25	
Patrick Lynch, for services as police- man	27	50	
Simon Mack, for services as police-	91	50	
man	1	88	
Henry Marshall, for services as police-	109	m E	
Ephraim McDaniel, for services as po-	183	10	
liceman	22	50	
Ezra Mitchell, for services as police-	0.5		
E. J. Murphy, for services as police-	27	50	
man · · · · · · · · · · · · · · · · · · ·	2	50	
Patrick Owen, for services as police-			
man		38	
Levi Palmer, for services as policeman, George A. Payne, for services as po-	91	25	
liceman	40	63	
Michael Riley, for services as police-			
A. P. Roberts, for services as police-	20	00	
man	22	50	
William Roberts, for services as police-			
man	18	75	
Charles L. Sawtell, for services as policeman	10	00	
John H. Shields, for services as police-	10	00	
man	1	25	
S. C. Smiley, for services as policeman	99	50	
William Sullivan, for services as po-	22	90	
liceman	1	25	
R. B. Walker, for services as police-	41	0.5	
man	41	25	
$Amounts\ carried\ forward$	\$20,878	00	\$2,670 86

Amounts brought forward	\$20,878	8 00	\$2,670	86
Paid under the direction of THE BOARD OF HEALTH, on acc't of SMALL POX:				
To John Watson, for services as police-				
J. R. Welch, for services as policeman,		75 13		
William F. Williams, for services as	10	10		
policeman	22	50		
J. B. Winter, for services as police-	99	50	•	
J. L. Woods, for services as police-	22	50		
man	16	25		
Herbert Young, for services as police-		~ .		
J. F. Moran, for services as police-	22	50		
man	2	50		
George C. Noyes, for services as po-				
liceman	23	75		
John E. Small, for services as policeman	57	50		
Joseph Allard, for services as nurse	5	00		
Frank Barrows, for services at hospi-		25		
tal Hannah Berry, for services rendered,	111	25		
taking care of children of M. Can-				
field		00		
Bridget Costello, for services as nurse, Laura Crane, for services as nurse	$\begin{array}{c} 8 \\ 42 \end{array}$	00		
Jane Dalton, for bed clothing destroy-	42	00		
ed	25			
David Frazer, for labor at Hospital	2	50		
Robert L. Frampton, for labor at Hospital	96	00		
Joseph Hilt, for services as nurse	15			
Margaret Hodge, for services as nurse,	85			
H. M. Hodsdon, for services as nurse, J. G. Huse, for services as nurse	$\begin{array}{c} 81 \\ 201 \end{array}$			
George W. Jordan, for services as	201	00		
nurse	82	50		
Charles P. Miller, for labor at Hospital	10	00		
J. D. Morse, for services as nurse	22			
E. J. Murphy, for labor	10	00		
Amounts carried forward	\$21,877	13	\$2,670	86
	, ,		#=,0.0	

	#04 OFF 4	0 40 000 00
Amounts brought forward	\$21,877 1	3 \$2,670 86
Paid under the direction of THE		
BOARD OF HEALTH, on acc't		
of SMALL POX:		
To Thomas Mulligan, for services in hos-	οο ο	0 '
pital	$\begin{array}{c} 80 \ 0 \\ 16 \ 5 \end{array}$	
Mary Nason, for nursing Sarah Ford. G. C. Noyes, for services as nurse	37 0	
Honora O'Neil, for taking care of Mc-	91 0	O
Mahan children	3 0	0
Hugh T. McCarty, for services as	•	_
nurse at Hospital	50 0	0
Calvin Philbrick, for services as mes-		
senger	97 5	0
John Pickens, for pressing coat, &c	1 7	5
Nicholas Pierce, for cleaning out vault,	10 0	
Alden Pinney, for labor at Hospital	8 0	0
F. C. Plunkett, for expenses of Sisters		
of Charity	150 0	00
Joel Powers, for services at Board of	100 1	٥
Health office	188 1	
Joseph B. Ripley, for services as nurse, A. P. Roberts, for services as cook at	55 0	0
Hospital	22 5	0
John E. Small, for services as driver	22 0	
of small pox team	35 0	00
Margaret Sullivan, for services at hos-	00 0	
pital	16 0	0
J. H. Wilson, for services as cook at		
Hospital	22 0	00
Peter Creighton, for use of horse and		
wagon	21 2	15
Mrs. Breen, for labor at office	1 0	
George J. Carney, for interest on loan,	25	02
Abel T. Atherton, for services as Sec-	100 (
retary of Board of Health	100 (
To amount of Superintendent of Streets'		— 22, 7 94 27
bills	385	26
DIIIS		— 385 26
*		
Amount carried forward	• • • • • • • • •	\$25,850 39

Amount brought forward	\$25,850	39
Paid under the direction of THE BOARD OF HEALTH, on acc't of SMALL POX:		
To amount of Superintendent of Public Buildings' bills	175	95
Whole amount expended, as per bills and vouchers, for the year	26,026	34
Add amount paid George J. Carney, for money borrowed, as per vouchers. Add amount accounted for by vouchers,		
&c		
Board of Health	4,703	58
Balance undrawn January 1, 1872	30,729 1,342	
	\$32,072	71

TABLE OF APPROPRIATIONS FOR 1871,

Including the Balances Undrawn at the Commencement of the Year; also the Expenditures for 1871, and the Balances Undrawn January 1, 1872.

	APPROPRIATIONS	EXPENDITURES.	BALANCES.
Schools	\$97,270 10	\$89,760 14	\$7,509 96
School-Houses	22,599 27	21,117 92	1,481 35
Roads and Bridges	68,671 09	49,932 94	18,738 15
Reserved Fund	24,104 70	11,919 15	12,185 55
*State Aid for Disabled			
Soldiers and Sailors and			
their Families, and for			
the Families of the slain,			
Paupers	25,867 22	18,026 74	7,840 48
Police	47,358 22	41,642 73	5,715 49
Fire Department	35,064 81	34,156 85	907 96
Water Pipe	2,975 58	262 70	2,712 88
Sewers and Drains	20,261 72	16,345 59	3,916 13
Commons	4,924 23	3,661 33	1,262 90
Printing and Advertising.	3,369 13	3,103 06	266 07
Lighting Streets and Pub-	·	·	
lic Buildings	20,172 81	15,650 04	4,522 77
Repairs of Public Buildings,	8,186 78	2,746 01	5,440 77
City Library	5,157 13	2,359 92	2,797 21
Salaries	16,646 81	16,003 75	643 06
Setting Trees	81 87	·	81 87
City Debt	38,045 89	10,500 00	27,545 89
Interest on City Debt	34,307 34	31,102 46	3,204 88
Carney Medal Fund	200 00	,	200 00
Corporation Tax			13,083 10
Water Works	717,358 20	624,151 66	93,206 54
Fire Alarm Telegraph	15,000 00	14,967 74	
Rebuilding Pawtuck't B'dge	18,000 00	13,127 26	4,872 74
Health Account	28,072 71	26,729 92	1,342 79
	,		
		L	

^{*}Unsettled account with the Commonwealth.

NOTES DUE FROM THE CITY,

DECEMBER 31, 1871.

AMOUNT OF INSTALLM'NTS	\$30,000 00	10,500 00	50,000 00	10,000 00	10,000 00	30,000 00 30,000 00	28,000 00	20,000 00	50,000 00	50,000 00	37,000 00	21,000 00
AMOU	\$30,0		50,0	10,(10,0	30,0	38,	50,0	50,0	50,(37,0	21,0
INSTALLMENTS, WHEN DUE.	1882, Sept. 1,	1,225 00 Nov. 1, 1873, and	2,500 00 1872, Aug. 5,	550 00 Sept. 13, 1877,	550 00 Sept. 13, 1882,	1,650 00 1887, Nov. 3,	1884, April 1,	3,000 00 1874, Aug. 9,	1874. Aug. 13,	3,000 00 1880, Jan. 13,	2,220 00 1880, March 22,	1,260 00 1879, June 1, '
ANNUAL INTEREST.	\$1,500 00		2,500 00	550 00	550 00	1,650 00	1,995 00		3,000 00	3,000 00	2,220 00	1,260 00
PER INTEREST, WHEN DUE.	Sep. 1 & Mar. 1, \\ \\$1,500 00 \ 1882, Sept. 1,	each year, \$\forall \text{Feb. 21, each year,}	Semi-annually,	Semi-annually,	Semi-annually,	Nov. 3 & May 3,	Oct. 1, and Apr. 1,	Mar. 16 & Sep. 16,	Mar. 16 & Sep. 16.	Semi-annually.	Semi-annually,	Semi-annually,
PER CENT.	5	رن مارہ	ين -	$5\frac{1}{2}$	54	5,7		9	9	9	9	9
	00	00	00	00	00	00		00	9	00	00	00
AMOUNT	\$30,000 00	$21,000 00 5\frac{5}{6}$	50,000 00	10,000 00 $5\frac{1}{2}$	10,000 00	30,000 00	38,000 00	50,000 00	50.000 00	50,000 00	37,000 00	21,000 00 6
TO WHOM PAYABLE.	1852, Sep. 1, Lowell Inst'n for Savings	1857, Feb. 21, City Inst'n for Savings,	1862, Aug. 5, Salem Savings Bank,	1862, Sep.13, Lowell Five Cents Sav- ings Bank,	1862, Sep. 13, Lowell Five Cents Sav- ings Bank,	City Inst'n for Savings,	City Inst'n for Savings,		Boston Five Cents Sav-	City Inst'n for Savings,	Lowell Institution for Savings,	1869, June 1, Lowell Institution for Savings,
DATE OF NOTES.	1852, Sep. 1,	1857, Feb. 21,	1862, Aug. 5,	1862, Sep. 13,	1862,Sep.13,	1862, Nov. 3,	1864, Ap'l 1,	, , , , , , , , , , , , , , , , , , ,	1864, Au. 13,	1865, Jan. 13,	1865, Mar. 22,	1869, June 1,

	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	abt, 25,000 00			
1,137 50 1876, October 1, 1,137 50 1878, October 1, 1,290 00 1881, October 1,	1883, October 1, 1873, July 13, 1885, October 1,	1,500 00 Perpetual Debt, 60 00 Perpetual Debt,			
1,137 50 1,137 50 1,290 00	1,290 00 300 60 1,290 00	1,500 00	\$30,455 60	48,000 00	\$78,455 60
$6\frac{1}{2}$ Semi-annually, $6\frac{4}{100}$ Semi-annually, $6\frac{4}{100}$ Semi-annually,	$6\frac{45}{100}$ Semi-annually, $6\frac{1}{2}$ Semi-annually, $6\frac{4}{100}$ Semi-annually,	Semi-annually, Semi-annually,	Int. on Ordinary City Debt, \$30,455 60	Am't of Interest on Water Loans, 48,000 00	
61 62 61 64 61	$ \begin{array}{c} 6 & 45 \\ 1 & 05 \\ 6 & 2 \\ 2 & 2 \\ 6 & 45 \\ 1 & 05 \end{array} $	9			
	20,000 00 4,624 63 20,000 00	25,000 00 6 1,000 00 6	\$522,624 63	800,000 00	\$1,322,624 63
Mechanics' Savings B'k, Mechanies' Savings B'k, City Inst'n for Savings,	**1870, June 1, City Inst'n for Savings, **1870, J'y 13, Thomas Nesmith, 1870, Aug. 1, City Inst'n for Savings, +1871 May 6, Bonnest of Thomas Nos.	mith, Bequest of Thomas Nesmith,	Amount of City Debt (ordinary),	Am't of Water Loans,	Tot. Am't of City Debt \$1,322,624 63
111	 	10,			

*Land purchased for School purposes, (Varney Street). fInterest on the same, (for the poor). ‡Interest on the same, (High Street Church).

DUE FROM THE CITY ON WATER LOANS

DECEMBER 31, 1871.

DATE OF NOTES AND BONDS.	TO WHOM PAYABLE.	AMOUNT.	PER CENT.		INTEREST, WHEN DUE.	ANNUAL INTEREST.	INSTALLMENTS, AM'T OF IN- WHEN DUE. STALLMENTS	AM'T OF IN- STALLMENTS.
870, Nov. 1,	1870, Nov. 1, Merchants Nat'l Bank, \$200,000 00 Six,	\$200,000 00	Six,	Bonds,	Semi-annually,	\$12,000 00	\$12,000 00 1890, Nov. 1, \$200,000 00	\$200,000 00
871, May 1,	1871, May 1, Lowell Inst. for Sav'gs., 200,000 00	200,000 00	Six,	City's Note,	Semi-annually,	12,000 00	12,000 00 1891, May 1,	200,000 00
870, Nov. 1,	1870, Nov. 1, Railroad Nat'l Bank,	150,000 00	Six,	Bonds,	Semi-annually,	9,000 00	9,000 00 1890, Nov. 1, 150,000 00	150,000 00
870, Nov. 1.	1870, Nov. 1. Mechanics'Savings B'k,	50,000 00 Six,	Six,	Bonds,	Semi-annually,	3,000 00	3,000 00 1890, Nov. 1,	50,000 00
870, Nov. 1,	1870, Nov. 1, City Inst. for Savings,	100,000 00	Six,	Bonds,	Semi-annually,	6,000 00	6,000 00 1890, Nov. 1, 100,000 00	100,000 00
870, Nov. 1,	1870, Nov. 1, Merchants Nat'l Bank, 100,000 00	100,000 00	Six,	Bonds,	Semi-annually,	00 000,9	6,000 00 1890, Nov. 1, 100,000 00	100,000 00
	Am't of Water Debt,	\$800,000 00			Int. on Water Debt,	\$48,000 00		

DEBTS DUE THE CITY,

JANUARY 1, 1872.

For	Taxes of 1869	\$2,895	65	
	Taxes of 1870	3,852	24	
	Taxes of 1871	10,378	85	\$17,126 74
	Sidewalk assessment	2,275		φ11,120 11
	Sewer Assessments Note of Hanover Dickey, secured by	445	90	
	mortgage	300	00	•
	Execution against Horace Howard	48	21	
	Use of Huntington Hall	305	00	
	Occupants of Stores, City Govern-			
	ment Building, rents and heating,	504	84	
	Rent of Store and Cellar in Market			
	House Building	250	00	
	Sundry persons, book account	1,555	44	
				5,684 74
For	Commonwealth, State Aid, balance			
	1870	539	75	
	Commonwealth, State Aid, balance			
	1871	20,304	60	
	Rent of Armorics	1,200	00	
	Burial of State Paupers	360	00	
	-		<u> </u>	22,404 35
				\$45,215 83

REAL ESTATE OWNED BY THE CITY.

City Government Building \$25,000 00 Huntington and Jackson Halls 35,000 00 Common, south of City Government Building 1,100 00 South Common 23,360 00 North Common 18,300 00 Belvidere Park 2,300 00 Market House 47,000 00 City Scalcs, rear of Market House 1,000 00 Almshouse and Farm 25,000 00 High School-house, of brick, on Anne and Kirk Streets, 43,000 00 Mrorth and South Grammar School-houses, of brick, in Belvidere 11,000 00 Grammar School-house, of brick, corner Middlesx and 11,000 00 Grammar School-house, of brick, on Lawrence Street 12,600 00 Grammar School-house, of brick, on Middle Street 12,500 00 Grammar School-house, of brick, on Merrimack Street 12,500 00 Grammar School-house and Ward Room, of brick, corner of Merrimack and Race Streets 3,400 00 Primary School-house, of brick, on Middlescx Street, near Hamilton Corporation, for four Schools 5,000 0	Otton O among and Davidation	#92 000 00
Common, south of City Government Building 1,100 00 South Common 23,300 00 North Common 18,300 00 Belvidere Park 2,300 00 Market House 47,000 00 City Scales, rear of Market House 1,000 00 Almshouse and Farm 25,000 00 High School-house, of brick, on Anne and Kirk Streets, 43,000 00 North and South Grammar School-houses, of brick, in Belvidere 23,000 00 Grammar School-house, of brick, in Belvidere 23,000 00 Grammar School-house, of brick, corner Middlesx and 11,300 00 Grammar School-house, of brick, on Lawrence Street 14,700 00 Grammar School-house, of brick, on Lewis Street 12,500 00 Grammar School-house, of brick, on Merrimack Street 17,000 00 Grammar School-house, of brick, on Merrimack Street 17,000 00 Primary School-house and Ward Room, of brick, corner of Mcrimack and Race Streets 4,600 00 Primary School-house, of wood, School Street 5,000 00 Primary School-house, of wood, Tilden Street 5,000 00 Primary School-house, of wood, Tilden Street 2,300 00 Primary School-house, of wood, Grand Street		
South Common 23,300 00 North Common 18,300 00 Belvidere Park 2,300 00 Market House 47,000 00 City Scales, rear of Market House 1,000 00 Almshouse and Farm 25,000 00 High School-house, of brick, on Anne and Kirk Streets, 43,000 00 North and South Grammar School-houses, of brick, in Belvidere 23,000 00 Grammar School-house, of brick, in Belvidere 23,000 00 Grammar School-house, of brick, corner Middlesx and 11,000 00 Grammar School-house, of brick, on Lawrence Street 14,700 00 Grammar School-house, of brick, on Lewis Street 12,600 00 Grammar School-house, of brick, on Middle Street 12,500 00 Grammar School-house, of brick, on Merrimack Street 17,000 00 Primary School-house and Ward Room, of brick, on 105,800 00 Primary School-house, of brick, on Middlesx Street 5,000 00 Primary School-house, of wood, School Street 5,000 00	Common couth of City Covernment Puilding	
North Common		
Belvidere Park		
Market House 47,000 00 City Scales, rear of Market House 1,000 00 Almshouse and Farm 25,000 00 High School-house, of brick, on Anne and Kirk Streets, 43,000 00 North and South Grammar School-houses, of brick, in Belvidere 23,000 00 Grammar School-house, of brick, in Belvidere 11,000 00 Grammar School-house, of brick, corner Middlesx and 11,300 00 Grammar School-house, of brick, on Lawrence Street 12,600 00 Grammar School-house, of brick, on Middle Street 12,500 00 Grammar School-house, of brick, on Lewis Street 12,500 00 Grammar School-house, of brick, on Merrimack Street, 17,000 00 Grammar School-house, of brick, on Merrimack Street, 17,000 00 Primary School-house and Ward Room, of brick, corner 3,400 00 Primary School-house, of brick, on Middlescx Street, 5,000 00 Primary School-house, of wood, School Street 5,000 00 Primary School-house, of wood, Grand Street 1,500 00 Primary School-hous		
City Scales, rear of Market House		
Almshouse and Farm		
High School-house, of brick, on Anne and Kirk Streets, North and South Grammar School-houses, of brick Grammar School-house, of brick, in Belvidere Grammar School-house, of brick, corner Middlesex and Branch Streets		
North and South Grammar School-houses, of brick		
Grammar School-house, of brick, in Belvidere		
Grammar School-house, of brick, corner Middlesex and Branch Streets		
Branch Streets		11,000 00
Grammar School-house, of brick, on Lawrence Street. Grammar School-house, of brick, on Middle Street		11 000 00
Grammar School-house, of brick, on Middle Street		
Grammar School-house, of brick, on Lewis Street		
Grammar School-house, of brick, in Centralville 17,000 00 Grammar School-house, of brick, on Merrimack Street, Primary School-house and Ward Room, of brick, corner of Mcrrimack and Race Streets 3,400 00 Primary School-house and Ward Room, of brick, on Church Street 4,600 00 Primary School-house, of brick, on Middlescx Street, near Hamilton Corporation, for four Schools 5,000 00 Primary School-house, of wood, School Street 5,000 00 Primary School-house, of wood, High Street, two Schools 3,600 00 Primary School-house, of wood, Grand Street 5,000 00 Primary School-house, of wood, Grand Street 5,000 00 Primary School-house, of wood, Grand Street 5,000 00 Primary School-house, of wood, Grand Street 2,000 00 Primary School-house, of wood, Carter Street 1,200 00 Primary School-house, of wood, Charles Street 1,200 00 Primary School-house, of wood, Powell Street 3,200 00 Primary School-house, of wood, Powell Street 475 00		
Grammar School-house, of brick, on Merrimack Street, Primary School-house and Ward Room, of brick, corner of Mcrrimack and Race Streets	Grammar School-house, of brick, on Lewis Street	
Primary School-house and Ward Room, of brick, corner of Mcrrimack and Race Streets		
of Merrimack and Race Streets	Grammar School-house, of brick, on Merrimack Street,	105,800 00
Primary School-house and Ward Room, of brick, on Church Street		
Church Street		3,400 00
Primary School-house, of brick, on Middlescx Street, near Hamilton Corporation, for four Schools		
near Hamilton Corporation, for four Schools 5,000 00 Primary School-house, of wood, School Street 600 00 Primary School-house, of wood, High Street, two Schools 3,600 00 Primary School-house, of wood, Tilden Street 1,500 00 Primary School-house, of wood, Grand Street 2,300 00 Primary School-house, of brick, Paige Street 2,300 00 Primary School-house, of wood, Worthen Street 2,400 00 Primary School-house, of wood, Carter Street 1,200 00 Primary School-house, of wood, Fayette Street. 1,650 00 Primary School-house, of wood, Fayette Street. 3,200 00 Primary School-house, of wood, Powell Street. 475 00		4,600 00
Primary School-house, of wood, School Street		•
Primary School-house, of wood, High Street, two Schools		
Schools		600 00
Primary School-house, of wood, Tilden Street	Primary School-house, of wood, High Street, two	
Primary School-house, of wood, Grand Street	Schools	3,600 00
Primary School-house, of brick, Paige Street	Primary School-house, of wood, Tilden Street	1,500 00
Primary School-house, of wood, Worthen Street 2,400 00 Primary School-house, of wood, Carter Street 1,200 00 Primary School-house, of wood, Charles Street 1,650 00 Primary School-house, of wood, Fayette Street 3,200 00 Primary School-house, of wood, Powell Street 475 00	Primary School-house, of wood, Grand Street	675 00
Primary School-house, of wood, Carter Street 1,200 00 Primary School-house, of wood, Charles Street 1,650 00 Primary School-house, of wood, Fayette Street 3,200 00 Primary School-house, of wood, Powell Street 475 00	Primary School-house, of brick, Paige Street	2,300 00
Primary School-house, of wood, Carter Street 1,200 00 Primary School-house, of wood, Charles Street 1,650 00 Primary School-house, of wood, Fayette Street 3,200 00 Primary School-house, of wood, Powell Street 475 00	Primary School-house, of wood, Worthen Street	
Primary School-house, of wood, Charles Street 1,650 00 Primary School-house, of wood, Fayette Street 3,200 00 Primary School-house, of wood, Powell Street 475 00	Primary School-house, of wood, Carter Street	1,200 00
Primary School-house, of wood, Fayette Street 3,200 00 Primary School-house, of wood, Powell Street 475 00	Primary School-house, of wood, Charles Street	1,650 00
Primary School-house, of wood, Powell Street 475 00	Primary School-house, of wood, Fayette Street	3,200 00
D	Primary School-house, of wood, Powell Street	475 00
Primary School-house, of wood, for two Schools, Cabot	Primary School-house, of wood, for two Schools, Cabot	
Street 2,600 00	Street	2,600 00
Amount carried forward\$462,100 00	Amount carried forward	\$462,100 00

Amount brought forward\$462,10	00	00
Primary School-house, of wood, Rock Street 2,10 Primary School-house, of wood, Salem Street, near	00	00
Common Avenue	00	00
Street	00	00
corner of Adams and Cross Streets 3,60	00	00
		00
Primary School-house, of wood, in Centralville 2,50 Primary School-house, of wood, on Ames and Lawrence	00	00
Streets		
Primary School-house, of wood, on Chapel Street 5,46 Primary School-houses, of wood, on Central and Chapel	00	00
Streets	00	00
Primary School-house, of brick, on Howard Street 4,00 Hose Carriage House, and Ward Room, on Fayette	00	00
Street		
Hook and Ladder House, of brick, on Middle Street 3,00 Double Engine House and Stable, of brick, on Middle	00	00
Street 10,28	50	00
Engine House, and Stable, of brick, on Middlesex Street, 6,5	50	00
Engine House, of wood, at Ayer's City 50		00
Hose Carriage House, of wood, on Central Street, 1,70	00	00
Engine and Hose House, of brick, on Warren Street. 1,86 Ward Room and Carpenter's Shop, of brick, on Middle	00	00
Street 3,00		
Gun House and Ward Room, of wood, on South Street, 1,20	00	00
-/	16	82
Lot of Land on the corner of Willie and Fletcher Streets,		
for Hose House and Ward Room 2,50		
Stable and Land on Western Avenue 6.00		
		00
Public Landing, rear of Market House, exclusive of the	_	00
Landing set off by the Locks and Canals 1,28		
Lot of Land and Stone Ledge, purchased in 1866, on the		00
east side of Fletcher Street		
the south side of Whiting Street	00	00
Two Lots of Land, with buildings, on Broadway, La Grange, Fletcher and Cross Streets, purchased		,
in 1869		
Streets, purchased in 1869		
Amount carried forward\$573,1	22	49

Amount brought forward	\$573,122	49
Lot of Land on Worthen Street, for School-house Lot of Land on Varney Street, bought of Thomas Nes-		35
mith, for School purposes	4,624	
House of Chaplain, on City Farm	2,500	00
Land and Buildings, purchased for Water Works	24,690	57

\$611,894 04

PERSONAL PROPERTY OWNED BY THE CITY.

List of Personal Property in the care of Luther Richards, Superintendent of Streets, January 1, 1872:

1 Stone Crusher and Engine	\$2,200	00
96 Cords of Wood, at Westford	528	
40 Cords of Wood, at Chelmsford	200	
40 Cords of Wood, at Yard	320	00
3,000 feet of Oak Plank	120	00
5,000 feet of Chestnut Plank	160	00
4,000 feet of Pine Plank	120	00
2,000 feet of Bridge Timbers	50	00
160 tons of Coal, at yard, at \$9.50 per ton,	1,520	00
15 tons of hay, at \$35.00 per ton	525	00
5 tons of Straw, at \$22.00 per ton	110	00
430 feet of Edge Stone, at 45 cts. per foot,	193	50
18 Horses, at \$350.00	6,300	00
7 sets Double Harnesses	525	00
7 sets Cart Harnesses	160	00
5 Lead Harnesses	150	00
1 Harness	25	00
2 Wagons · · · · · · · · · · · · · · · · · · ·	300	00
1 Sleigh	25	00
13 Carts	1,191	45
1 Watering Cart	125	00
6 Wood Wagons	500	00
11 Sleds		00
1 pair Draft Wheels	75	00
32 Lanterns	32	00
20 Shovels	20	00
20 Snow Shovels	28	00
20 Picks	20	00
12 Iron Bars	~ ~	00
300 lbs. Steel Drills		00
4 Striking Hammers		00
3 Stone Hammers	3	00
4 Iron Rakes	4	00

Amount carried forward.....\$16,092 95

Amount brought forward	\$16,092	95		
14 Hoes	14	00		
14 Feed Baskets	14			
3 Pails	3	00		
6 Small Hammers	12	00		
2 Plows		00		
4 Hay Rakes		00		
9 Hay Forks		00		
2 Scythes		00		
2 Stone Truck Drags	50			
3 Axes		50		
10 Curry Combs and Brushes	_	00		
22 Halters	22	00		
17 Blankets and Surcingles	62			
4 Wheelbarrows		00		
44 Stake Chains		00		
1 Platform Scale	15	-		
1 Hay Cutter	126	00		
1 Grindstone		50		
1 Saw Frame, Arbor, and two Saws		00		
Blacksmith's Tools and Shoes	700			
2 Stoves, Bed and Bedding	150	00		
15 Stone Watering Troughs	300	00		
			\$17,750	88
LIST OF PERSONAL PROPERTY IN THE CARE				
OF WEARE CLIFFORD, SUPERINTEND-				
a				
ENT OF STREET LAMPS, JANUARY 1,				
1872 :				
439 Gas Lamps, and 51 fluid	11,265	00		
2 Horses	450			
2 Harnesses	75	00		
1 Traverse Runner Sleigh	100			
2 Wagons	300			
2 Blankets, Halters and Surcingles	15			
1 Oil Covering		00		
1 Stove · · · · · · · · · · · · · · · · · · ·		00		
1 Building	75			
7 Ladders, at \$1.00		00		
	7	00		
7 Ladders, at \$1.00	$\begin{array}{c} 7 \\ 10 \end{array}$			
7 Ladders, at \$1.00	$\begin{array}{c} 7 \\ 10 \end{array}$	00		

Amount brought forward	\$12,332	00	~	
1 Lantern Frame	2	00		
1½ Boxes Glass, at \$6.00	_	00		
8 ¹ / ₄ Gross Matches	19			
1 1 Gross Wicking at 75 ets	1			
48 Burners, at 20 cts	9	60		
80 Extra Lamps, at 30 cts	24	00		
5 Gallons Fluid, at 30 ets	1	50		
2 Diamonds at \$5.00	10	00		
2 Pair Nippers, at \$1.00	2	00		
1 Fluid Can	20	00		
3 Small Fluid Cans		00		
Paint and Oil	3	00		
21 Fluid Lamp Posts	42	00		
Bits and Bitstocks		00		
Air Pump and Connections		00		
20 lbs. Cotton Waste, 12 cts	2	40		
1 Pair Pliers	1	25		
Wrench	_	00		
1 Spirit Level	1	50		
1 Tape Line		75	¢19 597	αə
			\$12,527	32
T D D				
LIST OF PERSONAL PROPERTY BELONGING				
TO THE CITY OF LOWELL, IN CARE				
OF LORENZO PHELPS, SUPERINTEND-				
ENT OF ALMSHOUSE, AND HOUSE				
of Reformation for Juvenile				
Offenders, January 1, 1872:				
1 Pair Team Horses	\$275	00		
1 Black Horse	200	00		
1 Bull		00		
1 Steer	90	00		
7 Milch Cows	450	00		
3 Sheep		00		
23 Pigs	317			
20 Hens and Chickens	15	00		
40 Tons English Hay	,	00		
9 Tons Meadow Hay	171	00		
4½ Tons Straw	- 90	00		
30 Tons Coal	240	00		
825 Bushels Potatoes	$\frac{280}{495}$	00		
ONO THERETO I OWNOCS	490	00		
Amount carried forward	\$4,163	50		

Amount brought forward	\$4,163 50
225 Bushels Corn	135 00
45 Bushels Oats	29 70
45 Bushels Rye	45 00
2,275 lbs. Pork, Lard, Hams, &c	273 00
7 Bushels Beans	21 00
A Lot of Groceries	360 00
Tools in Carpenter Shop	70 00
Lot of Tools, Iron, &c., in Blacksmith Shop,	100 00
2 Grindstones	15 00
1 Ox Drag	5 00
A Lot of Hay Caps	50 00
1 Two-Horse Farm Wagon	60 00
1 One-Horse Farm Wagon	75 00
3 Express Wagons	$\frac{400}{200} \frac{00}{00}$
1 Carryall	60 00
1 Sleigh	20 00
4 Single Harnesses, \$129.00, 2 Pair Dou-	20 00
ble Harness, \$30.00	159 00
2 Mowing Machines and 1 Horse Rake	125 00
1 Hay Tedder	70 00
1 Pair Draft Harnesses, and Chains	50 00
3 Horse Carts and 2 Ox Carts	260 00
1 Night Soil Cart	90 00
1 Hay Rigging and Runners	45 00
Lot of Scythes and Snaths	10 00
4 Yokes, \$16.00, 12 Chains, \$15.00, Forks	
and Rakes, \$25.00	56 00
7 Plows and 4 Forks	92 00
2 Cultivators, \$16.00, 3 Harrows, \$28.00.	44 00
2 Cradles, \$6.00, 1 Corn Sheller, \$8.00	$\begin{array}{ccc} 14 & 00 \\ 40 & 00 \end{array}$
Lot of Hoes, Iron Bars, and Shovels A Lot of Lead, Oil and Glass	$\frac{40\ 00}{30\ 00}$
Curry Combs, Brushes and Robes	5 00
250 Bushels Sugar Beets	100 00
175 Bushels Turnip Beets	105 00
7 Ton Carrots	9 00
600 Bushels Turnips	120 00
3 Wheelbarrows, and 13 Cider Barrels	28 00
A Lot of Coffins	143 00
A Lot of Strawberry Boxes	18 00
A Lot of Chestnut Posts	40 00
100 Gallons Cider, \$25.00, 275 Gallons	
Vinegar, \$120.00	145 00
70 Sash for Hot Beds	175 00
Amount carried forward	\$8,055 20

Amount brought forward	\$8,055	20		
1 Hand Engine and 300 feet Hose 2 Horse Sleds, \$90.00, 1 Ox Sled and 1	260	00		
Steer Sled, \$50.00	140	00		
A Lot of Cabbages and Onions	30	00		
Lot of Clothing and Bedding	2,128	47		
Lot of Furniture	1,482	00		
A Lot of Furniture, Bedding, &c., at Pest				
House	382	90	#10 1 5 0	٠,
			\$12,478	9.9
LIST OF PERSONAL PROPERTY UNDER THE				
CHARGE OF BICKFORD LANG, CITY				
Marshal, at Police Station and				
Police Court Room, January 1,				
1872 :				
22 Chairs in Guard Room	\$22	00		
6 Arm Chairs		00		
7 Desks	70	00		
1 Table	8	00		
2 Clocks	45	00		
2 Slates		40		
2 Stoves, Pipe and Pot	120			
3 Mirrors	_	00		
Beds and Bedding	125			
18 Pails and Buckets 1 Police Court Seal	18	00		
2 Fire Proof Safes	75			
1 Sofa · · · · · · · · · · · · · · · · · · ·	10			
Lot of Carpeting	20	00		
61 Silver Badges	$1\overline{52}$	50		
96 Police Clubs	46	00		
36 Police Belts	54	00		
32 Police Rattles	32	00		
Lot Window Curtains and Fixtures	20	00		
18 Spittoons	4	50		
6 Inkstands	1	50		
2 Irón Rakes		50		
1 Coal Sieve		50		
2 Shovels, \$1.50, One Axe, \$1.00		50		
15 Tin DippersLot of Police Buttons	1	50		
Bot of Tonce Duttons	75	00		
Amount carried forward	\$925	90		
,	Ψοπο	.,		

Amount brought forward	\$925 90	
1 Set of Dies for Police Buttons 25 Tons of Coal	30 00 225 00	1,180 90
In Police Court Room:		
14 Spittoons 2 Stoves and Funnel 4 Curtains and Fixtures 2 Officers' Desks 2 Office Baskets 1 Table 1 Ewer and Basin 1 Dust Pan 1 Long Brush Broom 1 Feather Duster 1 Corn Broom 1 Pail 2 Floor Mats 28 Chairs 6 Settees 2 Chair Cushions 92 Yards Cane Matting 12 Yards Woolen Matting Prisoners' Dock	7 00 70 00 4 00 5 00 1 50 5 00 25 2 00 3 00 25 30 10 00 28 00 2 00 92 00 92 00 12 00 25 00	302 30
		\$1,483 20
List of Personal Property in the care of Lorenzo G. Howe, Superintendent of Public Buildings, at the City's Shop, January 1, 1872:		1
3,843 feet Pine Boards. 2,940 feet Birch Lumber. 480 feet Clear Plank 288 feet Chestnut Plank 100 feet Chestnut Boards 70 feet White Wood Boards. 1,150 feet Floor Boards. 700 feet Sheathing. 300 feet D. M. Boards. 1,000 feet Old Lumber. Amount carried forward.	192 15 117 60 24 00 11 52 4 00 3 50 28 75 35 00 7 50 12 00	
21mount correct forward	\$436 02	

Amount brought forward	\$436	02
· ·		0.0
2 New Doors	10	00
132 Desks	231	16
185 Chairs	123	20
5 Arm Chairs	12	50
1 Old Arm Chair	1	50
5 Long Handle Brushes	4	50
13 Pails	3	12
7 Mop Handles	2	10
51 Brooms	17	34
16 Dippers	2	72
6 Ink Dippers	3	00
7 Wash Dishes	3	50
5 Dust Pans	1	25
8 Stove Shovels	1	36
5 Stove Brushes	1	50
4 Door Mats	8	00
4 Door Mats	11	20
5 Thermometers	2	50
1 Hand Bell	ar.	25
20 Boxes Assorted Crayons	25	00
105 Boxes White Crayons	15	75
120 Ink Wells	12	00
24 Pointers	11 2	00
22 lbs. Glue	6	40 60
7 lbs. Mop Waste	1	40
220 Sets Desk Stands	200	00
200 Chair Pedestals	110	00
1 Coal Hod	110	$\frac{00}{25}$
2 Window Brushes	1	20
21 Small Arm Chairs	15	75
14 Gross Screws	7	00
12 Door Knobs	2	52
7 Dozen Bolts	1	75
36 Padlocks	18	00
18 Door Bolts	4	50
30 Door Locks	3	60
12 Large Coffins	60	00
24 Small Coffins	60	00
4 Kegs Nails	20	00
1 Ream Sand Paper	1	50
400 Blackboard Erasers	80	00
547 Lights of Glass	36	00
7 Chestnut Posts	3	15
300 Fence Picks	21	00
Am ount accepted formuland	\$1,598	00
Amount carried forward	Φ1,098	UJ

Amount brought forward	\$1,598	09		
7 Bunches Laths	12 12	45 00	\$1,612	54
Amount of Tools in Charge of Super-			. ,	
INTENDENT OF PUBLIC BUILDINGS,				
JANUARY 1, 1872:				
2 Picks		00		
11 Shovels		50		
1 Iron Bar 9 Wheelbarrows		50		
1 Shingle Ripper	1	50		
1 Jack Screw		00		
10 Paint Pots	5	00		
9 Oil Cans	6	00		
12 Paint Brushes		00		
17 feet Rubber Hose		10		
5 Door Setts		00		
1 Grindstone	1	75		
3 Augers	_	00		
6 Ladders		00		
4 Hand Screws	3	50		
6 Wood Saws		00		
3 Pump Hooks	1	50		
8 Axes, \$8.00, 5 pairs Piper's Tongs,	0.1	00		
\$13.00 1 Clasion's Diamond \$4.00 5 Monkay	21	00		
1 Glazier's Diamond, \$4.00, 5 Monkey Wrenches, \$5.00	9	00		
1 Drill Hammer, 2 Drills		50		
1 Dilli Izdamiot, 2 Dillio VVV VVVV			\$144	85
Furniture in Government Building, Hun-				
tington Hall, and Jackson Hall	\$7,400	00		
Furniture in School-houses, not included	φ.,200			
in the Real Estate	9,600	00		
Furniture in Ward Rooms	25	00		
Flag Staffs	1,200	00	•	
Cast Steel Bell on the Market House	0.00	0.0		
Building (so-called) Bell on the High Street Church Tower	900 500			
Furniture in Armories and Drill Room	375			
In care of Undertakers, Hearses, &c	2,500			
In care of the Chief Engineer of the Fire	_,	- 0		
Department	55,000	00		
			\$77,500	00
				==

COMMON SEWERS AND RESERVOIRS

BUILT BY THE CITY, AND COST OF THE SAME.

From the Merrimack Canal through Market Street to		
Concord River From the Merrimack Canal, westerly, and from the	\$ 6,708	19
Western Canal, easterly, through Lowell Street,		
crossing under Merrimack Street, through Tilden		
Street, to the Merrimack River	13,800	00
On Central Street, from Charles Street to Union Street.	231	
On Alder and Bartlett Streets, from Livermore Street,		
to Merrimack River	714	50
On Merrimack Street, from Cabot Street, westerly to		
the west side of Austin Street, also from Race		
Street to Suffolk Street	635	58
On Race Street, from the northerly side of the North-		
ern Canal to Merrimack Street	865	87
On Moody Street, from Race Street, westerly to the west side of Austin Street	055	0.0
On Dodge Street, from Race Street to Suffolk Street	$\begin{array}{c} 855 \\ 184 \end{array}$	
On Cabot Street, from a point near Northern Canal,	104	68
southerly to Salem Street	539	95
On Middlesex Street, from Pearl Street, westerly 200	000	00
feet	485	22
On Church and Lawrence Streets, from Concord River	200	
to George Street, and from Church to Tyler		
Street	1,247	31
From south side of City Hall, back of Merrimack Street,		
to Unitarian Church, to Middle Street, through		
Central Street, entering the sewer at the corner		
of Central and Market Streets	1,112	00
Through Middle Street, from Central to Merrimack	4 400	0.0
Canal Prom Counct Street to Concord Bivon near Warner	1,498	92
From Garnet Street to Concord River, near Warren Street	4.000	9.77
On Jefferson Street, from Lowell to Lewis Street	4,980 385	
On Gorham Street, from Middlesex to Charles Street	924	
On Willow Street.	297	
Amount carried forward	\$35,466	19

Amount brought forward	\$35,466	19
O Manier de Charles Com Manier de Charles Charles	005	0.5
On Merrimack Street, from Nesmith to Fayette Street.	935	
On Merrimack and Prescott Streets	503 255	
On Merrimack Street, near Colburn Street	$\frac{z_{55}}{102}$	
On Garnet Street	102	90
From Pawtucket Canal, through Middlesex Street to Grand Street	526	11
On Suffolk Street	1.137	
On Bartlett Street	350	
On Gorham Street, from Union to Auburn Street	625	
Through Middlesex to Queen Street, and Queen to Som-	020	01
erset Street	529	07
On Fenwick Street	526	
On Dummer Street, from Lowell to Mechanic Street	349	
On Worthen Street, from Lowell to Mechanic Street	563	
On Lee Street to John Street, and through John to Vine		
Street and passage-way east of the Museum; also		
a drain through John Street Avenue	555	23
On Middlesex Street	352	
On Alder Street	249	
From Central through Charles and Lawrence Streets to		
Concord River	2,090	11
On Hurd Street	703	
On Middlesex Place	281	49
On Merrimack Street, from Race Street, westerly	41	66
On Lowell Street, from Suffolk to Cabot Street	508	37
On Central Street, from Union to Ames Street	518	34
Through part of Andover, through Clay, and partly		
through Oak and High Streets	2,269	31
Through Elliott to Appleton Street, westerly to Thorn-	ĺ	
dike Street	1,455	66
On Merrimack Street, from Tremont to Hanover Street,	317	75
On Middlesex Street, from Grand Street, westerly	187	81
On Ash Street	147	
On Dutton Street	493	
On Chestnut Street	340	
On Adams Street	885	
On Union and Chapel Streets	724	
On Third Street	748	
On Kirk Avenue	238	
On East Merrimack Street	231	43
On Bridge Street	1,500	00
On Branch Street	152	44
On Water Street	383	54
On Salem Street	217	53
On Jackson Street	185	89
Amount carried forward	\$57,652	26

Amount brought forward	\$57,652	26
On Fourth Street	927	98
On Adams and Lagrange Streets	1,257	
On Fayette Street	192	
On Hanover Street	85	85
On Merrimack Street, from Decatur Street, westerly	$1\dot{3}6$	55
On Andover Street	418	99
On Tyler Street	468	24
On Branch Street	764	58
On Fifth Street	469	41
On Favor Street	132	22
On Dutton Street, from Lowell Street, westerly	234	51
On Suffolk Street, from Cross Street, southerly	459	32
On River Street	301	30
On Andover Street	490	00
On Pawtucket Street	423	00
On Seventh Street	282	
On Cady and Lawrence Streets	620	
On North Street	331	80
On Warren Street, sixty feet from Central Street	181	
On John Street Avenue	156	44
On Bridge Street, commencing at Tenth Street, to		
Ferry Lane Road	258	
On Elm, Linden, Union, to Auburn Street	1,667	
On Winter Street	632	10
On Crosby Street, from Meadow River Brook, to Cen-		
tral Street	3,309	43
On Sixth Street, from Read Street, to the sewer in		
Bridge Street	650	50
On Mount Vernon Street, from Rock Street to Fulton	2 1 2 2	0.0
Street	2,128	
On Cedar Street to Keene Street	1,304	
On Marion Street, from Cross Street to Lagrange Street,	1,165	70
On Branch Street, from School Street to a point near	0.04	0.0
Loring Street	964	00
On Chapel, Walnut and Central Streets, from Crosby	9.094	0.0
Street, to near Gorham Street	3,834	86
On Cross Street, from Fletcher Street, westerly to Mount Vernon Street	1 200	15
On Passage-way between Fletcher Street and Willie	1,398	19
Street, crossing Broadway, to land of A. L.		
Brooks Broadway, to land of A. L.	372	40
DIOURS	012	

RESERVOIRS.

On Union Street, at foot of Chapel Street	\$680	00
On Tyler Street, at Junction with George Street	669	00
On Chestnut Street, at Junction with Willow Street	763	00
On Cross Street	675	00
On East Merrimack Street, at Junction with High Street,		
and one on Salem Street, near Common Street,		
both	1,964	82
On Central Street, at foot of Elm Street	600	
In Centralville	650	00
On Branch Street	588	86
On Fourth Street, Centralville	397	88
On Westford Street	280	48
On Chapel Street	474	21
On Varney Street	474	21
On the corner of Wilder and Middlesex Streets	994	44
On the corner of Bridge and Seventh Streets	1,472	94
On the corner of Howard and Hale Streets	1,146	
	\$11,831	76
·		
WATER PIPE.		

Expended in	1851	\$ 8,304	12
	1852		
"	1853	221	56
66	1857	4,572	45
"	1867	26,079	61
"	1868	12,569	26

\$55,681 15

FIRE DEPARTMENT.

The following schedule, furnished by the Chief Engineer, shows the number of Engines and Firemen, and condition of the Apparatus, belonging to the Fire Department, with the number of feet of Water Pipe laid, and the number of Hydrants:

HOPE STEAM FIRE ENGINE COMPANY, No. 1.

13 Members.—House on Middle Street.

Apparatus and property owned by the City, in care of this Company.

This Company was organized and put in service, May 1, 1866. The steamer was built by the Union Machine Company, of Fitchburg, and given in charge of this Company in October, 1870. The engine has two double-acting steam cylinders, $7\frac{1}{8}$ inches in diameter, and 8 inch stroke, and two double-acting pumps, $4\frac{3}{8}$ inches in diameter, and 8 inch stroke; weight, when loaded, 7575 lbs.; hose carriage built by Jucket & Freeman, Boston, in 1869; carrying 500 feet of hose, drawn by hand; 1500 feet $2\frac{1}{2}$ inch leading hose, in good condition; 32 feet suction hose; 6 reducing couplings; 2 axes; 1 pair horses; 1 pair harnesses; 4 blankets; 1 pair hoods; 1 pair lead-bars; 1 whiffletree; 3 beds and bedding; 1 bureau; 18 cane-seat chairs; 6 common chairs; 1 table; 1 mirror; 1 wood stove; 1 two-way chuck; 1 spreading nozzle, and all necessary tools for cleaning horses and repairing engine; 13 hat-fronts.

TORRENT STEAM FIRE ENGINE COMPANY, No. 2.

13 Members.—House on Middlesex Street.

Apparatus and property owned by the City, in care of this Company.

This Company was organized and put into service, May 1, 1861. The steamer was built by Hunneman & Co., Boston, and given in charge of this Company, February 28, 1868. The engine has two double-acting steam cylinders, 8 inches in diameter, and 8 inch stroke; and two double-acting pumps, $4\frac{3}{8}$ inches in diameter, and 8 inch stroke. The pumps are so arranged that they can be worked separately in case of an accident to either of them; the boiler will make steam enough to run the engine in five minutes; weight, when loaded, 7720 lbs.; 30 feet suction hose, with hydrant couplings;

hose carriage built in 1868, by Hunneman & Co., drawn by hand, carrying 500 feet of hose; 1450 feet $2\frac{1}{2}$ inch leading hose, in good condition; 2 axes; 1 reducing coupling; 1 spreading nozzle; 14 cane-seat chairs; 12 common chairs; 1 table; 2 stoves; 1 bureau; 3 beds and bedding; 2 mirrors; 1 pair horses; 1 pair harnesses; 4 blankets; 1 pair lead-bars; and all necessary tools for cleaning horses and repairs of engine; 1 two-way chuck; 1 copper boiler; 1 jackscrew; 1 fuel wagon; 13 hat-fronts; 1 carriage jack; 75 feet small rubber hose; 1 rotary pump; 1 common pump.

WAMESIT STEAM FIRE ENGINE COMPANY, No. 3.

13 Members.—House on Middle Street.

Apparatus and property owned by the City, in care of this Company.

This Company was organized and put into service in October, 1859. In November, 1866, they were given in charge of a new steamer built by Hunneman & Co., of the same style, capacity, etc., as Steam Fire Engine No. 2; weight, when loaded, 7650 lbs.; 30 feet suction hose, with hydrant couplings; hose carriage built by Hunneman & Co., Boston, carrying 500 feet hose; 2 reducing couplings; 1 axe; 1 spreading nozzle; 1700 feet $2\frac{1}{2}$ inch leading hose, in good condition; 3 wooden chairs; 18 cane-seat chairs; 1 two-way chuck; 1 table; 2 mirrors; 2 desks; 1 bureau; 3 beds and bedding; 1 wood stove; 2 jack-screws; 1 pair horses; 2 pair harnesses; 4 blankets; 1 pair lead-bars; and all necessary tools for cleaning horses and repairs of engine; 13 hat-fronts.

The following articles are owned by the City and are used by both Companies; 2 whiffletrees; 1 large stove; 1 clock; 50 feet \(\frac{3}{2}\) inch rubber hose and pipe; 1 copper boiler; 1 fuel wagon; 1 pair

of runners.

RELIEF STEAM FIRE ENGINE COMPANY, No. 4.

2 Members.—House on Warren Street.

Apparatus and property owned by the City, in care of this Company.

Engine built by Silsby, Mynderse & Co., Seneca Falls, in 1861, on the rotary principle, 12 inch engine, 6 inch pump. In 1866a new boiler was built by Hunneman & Co., Boston, which will make steam enough to run the engine in five minutes; weight, when loaded, 8300 lbs.; 30 feet suction hose, with hydrant couplings; hose carriage built in 1861, by Joel Jenkius, drawn by horse, carrying 800 feet of hose, and all necessary tools for repairs of engine; 1 single harness; 200 feet $2\frac{1}{2}$ inch hose, and 1300 feet $2\frac{1}{4}$ inch hose. The above apparatus does not come out at an alarm of fire unless sent for.

OCEAN HOSE COMPANY, No. 1.

12 Members.—House on Warren Street.

Apparatus and property owned by the City, in care of this Company.

Hose Carriage built by Hunneman & Co., Boston, drawn by hand, carrying 750 feet of hose; 1800 feet $2\frac{1}{2}$ inch leading hose, in good condition; 1 spreading nozzle; 2 axes; 2 stoves; 1 two-way chuck; 4 reducing couplings; 1 table; 1 copper boiler; 1 harness; 20 chairs; 2 mirrors; 1 jack; 1 coal-hod; 12 hat-fronts; 30 feet of small rubber hose; 1 settee; 2 lanterns; 1 carriage jack; 2 shovels.

MECHANICS' HOSE COMPANY, No. 2.

12 Members.—House on Cross Street.

Apparatus and property owned by the City, in care of this Company.

Hose Carriage built by Jucket & Freeman, of Boston, in 1869, carrying 900 feet of hose; 2000 feet of $2\frac{1}{2}$ inch leading hose, in good condition; 1 reducer; 1 spreading nozzle; 1 jack; 50 feet rubber hose and pipe; 2 settees; 6 common chairs; 12 cane-seat chairs; 1 mirror; 1 table; 2 ladders; 1 axe; 1 two-way chuck; 2 stoves; 12 hat-fronts.

EXCELSIOR HOSE COMPANY, No. 3.

12 Members.—House on Central Street.

Apparatus and property owned by the City, in care of this Company.

Hose carriage built by Jucket & Freeman, Boston, in 1869, drawn by hand, carrying 900 feet of hose; 1190 feet $2\frac{1}{4}$ inch hose, and 500 feet $2\frac{1}{2}$ inch hose; 2 axes; 4 buckets; 8 common chairs; 13 cane-seat chairs; 1 mirror; 2 stoves; 1 table; 2 settees; 2 coalhods; 1 jack; 20 feet rubber hose; 1 ladder; 4 reducers; 6 hatfronts; 1 two-way chuck; 1 two-horse carriage pole; 1 copper boiler; 1 coal sifter; 2 shovels; 1 carriage jack; 3 lanterns; 1 wrench; 1 reducer; 1 pair steps.

MAZEPPA HOSE COMPANY, No. 4.

12 Members.—House on Fayette Street.

Apparatus and property owned by the City, in care of this Company.

Hose carriage built by Wright & Co., Lowell, in 1871, carrying 900 feet of hose, drawn by hand; 1900 feet $2\frac{1}{2}$ inch hose, in good condition; 1 spreading nozzle; 2 axes; 1 two-way chuck; 2 reducing couplings; 2 stoves; 1 coal-hod; 1 mirror; 1 table; 23 chairs; 1 settee; 30 feet of rubber hose and pipe; 12 hat-fronts; 5 lanterns; 1 iron bar; 1 shovel.

FRANKLIN HOOK AND LADDER COMPANY, No. 1.

28 Members.—House on Middle Street.

Apparatus and property owned by the City, in care of this Company.

Two hook and ladder carriages, built by Jucket & Freeman, of Boston, in 1869, carrying the following apparatus: 8 hooks, 12 props, 10 rakes, 8 pitchforks, 4 sledges, 4 axes, 6 stakes, 4 guy ropes of 84 feet each, 200 feet street rope, 16 ladders of the following lengths: 2 roof ladders, 18 feet each; 1 do. do., of 20 feet; 2 do. do., of 25 feet each; 1 do. do., of 28 feet; 1 ladder, of 12 feet; 1 do., of 24 feet; 4 do., of 33 feet; 2 butt ladders, of 28 feet each; 2 tip ladders, of 30 feet each. By joining the tips and butts together they are enabled to raise ladders of 58 feet in length. 25 feet of rubber hose and pipe; 6 ladders; 350 feet of chain; 10 chairs; 1 stove; 1 mirror; 1 copper boiler; 1 horse and harness; 2 blankets.

FIRE APPARATUS AT STATIONARY POINTS.

To be used by Volunteers when required.

ROCKET ENGINE, No. 2.—House, Ayer's City. Hunneman & Co. engine, owned by City; diameter of cylinders, 5½ inches; 16 inch stroke of piston; 600 feet of leading hose; 26 feet suction hose.

FIRE KING ENGINE, No. 6.—Kept at Poor Farm. Hunneman & Co. engine, owned by City; diameter of cylinders, $3\frac{1}{2}$ inches; 12 inch stroke.

Two hose carriages kept at house on Fourth Street, Centralville. Also 300 feet leading hose; 28 settees; 4 chairs; 1 ladder.

RECAPITULATION.

5 Engineers; 118 Firemen; 2 Hand Engines; 4 Steam Fire Engines; 10 Hose Carriages; 3 Hook and Ladder Carriages; 2,650 feet $2\frac{1}{2}$ inch Leading Hose; 2,200 feet $2\frac{1}{4}$ inch Leading Hose; 178 feet Suction Hose; 7 Horses; 2 Fuel Wagons; 2 Trucks; 89 Hatfronts; 4 Double Harnesses; 2 Single Harnesses; 8 Hooks; 26 Ladders; 12 Props; 10 Rakes; 8 Pitchforks; 4 Sledges; 19 Axes; 200 feet Street Rope; 350 feet of Chain; 28 Reducing Couplings; 7 Spreading Nozzles; 9 Beds and Bedding; 140 Chairs; 31 Settees; 10 Mirrors; 17 Stoves; 8 Tables, 3 Bureaus; 6 Blankets; 7 two-way Chucks; 3 Copper Boilers; 4 Jack-screws; 2 Desks.

The above apparatus is owned by the City, and is in good working order. The several Companies are furnished with Spanners, Lanterns, Signal Lanterns, Belts, Axes, Crowbars, Shovels,

and all necessary apparatus for the performance of their respective duties. There are 13 Fire Buckets at the Market House rooms, and

8 at the City Government Building.

The City of Lowell has 16 Reservoirs where water can be procured in case of fire, situated as follows: 1 on Tyler Street, at the corner of George Street; 1 on Chestnut Street, at the corner of Willow Street; 1 on East Merrimack Street, at the corner of High Street; 1 on Salem Street, near the intersection of Willie Street; 1 on Cross Street, between Fletcher and Willie Streets; 1 on Central Street, Hosford Square; 1 on Myrtle Street, at the head of Fifth Street, Centralville; 1 on Union Street, at the corner of Chapel Street; 1 on the corner of Westford and Grand Streets; 1 on Fourth Street, near Read Street; 1 on Chapel Street, at the corner of Keene Street; 1 on Varney Street, near Mt. Vernon Street; 1 on the corner of Wilder Street and Middlesex Street; 1 on the corner of Bridge and Seventh Streets; 1 on Howard Street, at the corner of Hale Street.

WATER PIPE DEPARTMENT.

LENGTH OF WATER PIPE LAID IN THE CITY.

ALSO, SIZE OF PIPE AND NUMBER OF HYDRANTS.

	Length of Pipe.	No. of Hydrants.	Size of Pipe.
Central Street, from Merrimack to Market	430	2	6 in.
Central Street, from Warren to Middlesex	544	3	6 "
Central Street, from Warren to Middlesex	544	1	12 "
Central Street, from Middlesex to Church	240		4 "
Central Street, from Tower's Corner	2429	10	12 "
Middlesex Street, from Central to Branch	3711	14	12 "
Branch Street, from Middlesex to Smith	500	3	12 "
Gorham Street, from Central to South	1950	7	4 "
Bridge Street	475	4	8 "
French Street	890	4	4 "
Kirk Street	770	4	4 "
Merrimack Street, from Bridge to Cabot	3370	13	12 "
Merrimack to Middle (through City Hall Av.)	220	2	4 "
Merrimack Street, from Cabot westerly	440	2	8 "
Cabot Street, from Merrimack to Adams	300	1	12 "
Adams Street	2255	11	8 "
Broadway, from Adams to School	1940	7	10 "
Cushing Street	520	9	8 "
From Cushing Street to Middlesex	1035	3	8 "
	22563	100	

Property belonging to Water Pipe Department.

About 1000 feet cast iron pipe, 6 inch; 17 yard hydrants; 2000 feet lumber; 15 shovels; 5 picks; 4 tamping mauls; 3 pails; 3 torch stands; 2 hoes; 2 wheelbarrows; 2 sledges; 2 iron bars; 1 stove; 1 wrench; 1 hydrant pattern; 1 two-way chuck pattern; 1 pump and pipe.

STOP-GATES.

There are 14 Stop-Gates; one 12 inch, on Central Street, opposite Warren Street; one 8 inch, at the corner of Merrimack and Worthen Streets; one 8 inch, at the corner of Merrimack and Bridge Streets; one 8 inch, on Cabot, near Merrimack Street; one 12 inch, corner of Central and Jackson Streets; one 12 inch, Tower's corner; one 8 inch, Western Avenue; one 8 inch, Middlesex Street; and one Safety Valve, on Dutton Street, at the head of Wamesit Court; one 6 inch on Gorham Street; one 12 inch on corner of Middlesex and Gorham Streets; one 12 inch on Broadway, near Adams Street; one 8 inch on Adams Street, near Broadway; one 8 inch on Adams Street, near Salem Street; one 4 inch in School-house yard on Merrimack Street.

PROPERTY OWNED BY THE CITY NOT AVAILABLE.

Old Burial Ground on School Street. Burial Ground on the Boston Road, south of the Railroad. Burial Ground on the same Road, south of the last named.

RECAPITULATION OF ASSETS OF THE CITY.

D 177//	****	
Real Estate	. ,	
Personal Property in care of Superintendent of Streets,	17,750	88
Personal Property in care of Superintendent of Alms-		
house	12,478	57
Personal Property in care of Superintendent of Street		
Lamps	12,527	92
Personal Property in care of Undertakers	2,500	00
Personal Property in care of Chief Engineer	55,000	00
Personal Property at City Marshal's Office and Police	·	
Station, and Police Court Room	1,483	20
Personal Property at the Government Building, Hun-		
tington Hall and Jackson Hall	7,400	00
Personal Property in care of Superintendent of Public		
Buildings	1,757	39
Personal Property in School-houses	9,600	00
Books in the City Library	10,600	00
Debts due the City	48,215	83
Bell in High Street Church Tower	500	00
Cast Steel Bell on Market House Building, (so called),	900	00
Flag Staffs	1,200	00
Furniture in Armories and Drill Rooms	375	00
Furniture in Ward Rooms	25	00

\$794,207 83

LEASES AND RENTS OF PUBLIC BUILD-INGS OWNED BY THE CITY.

Rented to Carleton & Hovey, one store in City Govern-		
ment Building	\$1,300	00
Rented to William Bascom, one store in City Govern-		
ment Building	700	00
Rented to E. C. Leslie & Co., one store in City Govern-		
ment Building	900	00
Rented to Alfred Gilman & Son, one store in City Gov-		
ernment Building	900	00
Leased to Charles P. Talbot & Co., store and cellar in		
Market House Building, for five years from Oc-		
tober 1, 1868	1,000	00
Rented to Commonwealth, for Armories	1,200	00
Rented to J. W. Bennett, land corner of Middlesex and		
Grand Streets	50	00
Rented to J. C. Ayer & Co, well privilege under Green		
School-house	1	00
	\$6,051	00

LANDS AND BUILDINGS FOR WHICH THE CITY PAYS RENT.

The City pays to the Proprietors of Locks and Canals on Merrimack River, for the use and rent of reser- voir water, on Lynde's Hill, so-called, in Tewks- bury, (on a lease) for the purpose of conveying water for extinguishing fires, from January 1,	Per Annu	m.
The City pays to the Proprietors of Locks and Canals on Merrimack River, for the use and reut of reservoir water in water pipes on Moody and Pawtucket Streets, for extinguishing fires, from May	\$7,500	00
8, 1871, as per contract	750	00
1. 1868	300	00
Hall Building, (on lease) The City pays the Merrimack Manufacturing Company,	450	00
for rent of Primary School-house No. 12 The City pays on lease to Charles B. Coburn, for rent of Police Court Rooms for five years and six	94	00
months from April 1, 1870 The City pays on lease to Hocum Hosford, for rent of Rooms for City Library (Masonic Temple), for	650	00
ten years from January 1, 1872	1,200	00
	\$10,944	00

GEORGE GARDNER, Auditor.

TREASURER'S ACCOUNT, 1871.

CITY OF LOWELL,
CITY TREASURER'S OFFICE, January 9, 1872.

To the City Council:

Gentlemen,—I have the honor to submit herewith, an account of the Receipts and Payments from January 1, to December 31, 1871.

Respectfully submitted,

JOHN H. McALVIN, City Treasurer.

In Common Council, January 9, 1872.

Read and referred to the Joint Standing Committee on Accounts; sent up for concurrence.

GEO. GARDNER, Clerk.

IN BOARD OF ALDERMEN, January 9, 1872.

Read and referred in concurrence.

SAMUEL A. MCPHETRES, City Clerk.

Dr.	CITY	OF	Lov	VELL,	in c	eccoun	t cur	rent	with .	Јони Н.	McALV	ın,
For Cash pai	d and o	char	ged	to the	e fol	lowin	g ac	coun	ts:			
Schools,		•									\$81,283	67
School-h	ouses,										30,739	20
Streets,											63,966	74
Reserved	Fund	,									22,729	17
Paupers,											18,594	79
Police,											41,559	51
Fire Dep	artmei	nt,									31,130	68
Water Pi	pe,										216	69
Sewers,											11,500	75
Common	s,										3,148	28
Printing,											2,938	86
Lighting	, -										15,014	40
Repairs of	f Publ	lic E	Build	lings,							2,096	53
Library,											1,910	40
Water W	orks,										613,117	21
Salaries,											15,926	75
State Aid	Ι,										20,321	14
Interest,											31,102	46
Tempora	ry Loa	ns,									88,000	00
City Deb											10,500	00
State Ta	x, .										51,850	00
County T	ax,										21,108	07
Fire Alar	m Tele	egra	ph,								14,967	74
Pawtuck	et Brid	lge,	•								13,061	63
Health											22,883	
National	Bank '	Tax									18,562	

\$1,575,747 86

18,562 53 327,517 52

City Treasurer, Janua	ry 1	to D	ecemt	ber 31	, 187	1.			Cr.			
By Cash on hand Janu	ary	1, 187	71						\$266,374 07			
By Cash received and eredited to the following accounts:												
Schools, .									3,947 41			
School-houses,									1,101 85			
Streets,									12,794 32			
Reserved Fund,									15,625 46			
Paupers,									7,234 80			
Police,									3,470 47			
Fire Department,									2,014 94			
Water Pipe, .									61 20			
Sewers,									5,082 54			
Commons, .									688 50			
Lighting, .									1 00			
Repairs Public Bu	ildin	gs,							50 94			
Library,									2,155 10			
Water Works,									611,372 34			
State Aid, .									31,333 64			
Interest,									417 68			
Taxes of 1869,									81 20			
" 1870,									3,021 49			
" 1871,									467,863 79			
Temporary Loans,									88,000 00			
Corporation Tax,									27,037 98			
City Debt, .									26,000 00			
Health,									17 14			

\$1,575,747 86

JOHN H. MCALVIN, City Treasurer.

CITY OF LOWELL.

TREASURER'S OFFICE, January 25, 1872. IN COMMITTEE ON ACCOUNTS.

To the City Council:

Gentlemen,—The Joint Standing Committee on Accounts for the year 1872, to whom was referred the account current of John H. McAlvin, City Treasurer, from January 1, 1871, to December 31, 1871, hereby certify that in pursuance of Chapter First, Section Seventh, of the Ordinances of the City of Lowell, we have examined the said account and find the same correctly cast, and all payments therein charged, sustained by proper vouchers.

We find there has been received into the Treasury, from all sources, from January 1 to December 31, 1871, including the balance on hand January 1, the sum of one million five hundred and seventy-five thousand seven hundred and forty-seven dollars and eighty-six cents, (\$1,575,747.86,) and there has been paid from the Treasury during the same period, the sum of one million two hundred and forty-cight thousand two hundred and thirty dollars and thirty-four cents, (\$1,248,230.34,) leaving a balance in the hands of the Treasurer December 31, 1871, of three hundred and twenty-seven thousand five hundred and seventeen dollars and fifty-two cents, (\$327,517.52).

We find there has been received into the Treasury, from all sources, from December 31, 1871, to January 25, 1872, the time of the date of this report, including the balance on hand December 31, 1871, the sum of three hundred and thirty-seven thousand four hundred and seventy-one dollars and ninety-seven cents, (\$337,471.97,) and there has been paid from the Treasury during the same period, all of said payments being sustained by proper vouchers, the sum of forty-seven thousand six hundred and ninety dollars and ninety cents, (\$47,690.90) leaving at the date of this report, a cash balance of two hundred eighty-nine thousand seven hundred eighty-one dollars and seven cents, (\$289,781.07) in the hands of the City Treasurer, which we have verified by an actual examination of all assets in the hands of the City Treasurer.

Respectfully submitted.

BENJAMIN PATCH, WILLIAM KELLEY, HORACE ELA, JULIAN TALBOT, ALONZO F. CASWELL,

Joint Committee on Accounts, 1872.

IN COMMON COUNCIL, February 13, 1872.

Read and accepted; sent up for concurrence.

GEORGE GARDNER, Clerk.

IN BOARD OF ALDERMEN, February 13, 1872.

Read and accepted in concurrence.

SAMUEL A. MCPHETRES, City Clerk.

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ORDINANCES OF THE CITY OF LOWELL, CHAPTER 1, SECTION 5.

"No bill or claim against the City, other than judgments of the Judicial Courts, shall be allowed or passed by the Committee on Accounts, unless such bill or claim shall be approved or certified by some agent, officer, or committee, authorized on behalf of the City, to make the contract or cause the expenditure to be incurred; or unless such expenditure be expressly required by some specific vote of the Council."

CLAIMS AGAINST THE CITY.

IN COMMITTEE ON ACCOUNTS, January 12th, 1872.

Ordered, That hereafter the Quarterly Salary Bills of the Teachers of the Public Schools, duly approved, be presented to the Auditor seven days before the close of each term, and that they be payable on the Saturday succeeding.

2nd-That all Pauper bills be presented to the Auditor on or before the 28th day of

each month.

ard—That all other bills be made up to include the last day of the month, and that, duly approved, they be presented to the Auditor on or before the first day of the following month, and be payable on the tenth.

Items charged to different Appropriations should be made out on separate bills.

All bills not presented and approved as above, will lie over until the next month.

BENJAMIN PATCH, BENJAMIN FAICH,
WILLIAM KELLEY,
HORACE ELA,
JULIAN TALBOT,
ALONZO F. CASWELL,
Committee on Accounts.

The AUDITOR'S OFFICE is in the City Government Building. Office hours from 8 to 12 A. M., and from 2 to 5 o'clock, P. M.

TO PERSONS HAVING CLAIMS AGAINST THE CITY.

It is very desirable that bills presented for payment should specify what the article or articles were for-and when for labor where it was performed-with proper dates.

If persons having bills against the City, would be more careful in specifying particulars, it would enable the Auditor to prepare his Annual Report with much less trouble. GEORGE GARDNER, Auditor.

The amount due semi-annually to members of the Fire Department becomes payable on and after the $10 \mathrm{th}$ of May and November.

TREASURER'S OFFICE HOURS.

From 9, A. M., to 12, M., and from 2 to 5, P. M. During time for receiving taxes, from 8, A. M., to 12 M.; from 2 to 5, and from 7 to 9, P. M.; closed Wednesday and Thursday evenings.

CITY OF LOWELL.



SALARIES

OF THE

OFFICERS OF THE CITY OF LOWELL,

FOR THE YEAR 1872-73.



CITY OF LOWELL.

IN THE YEAR EIGHTEEN HUNDRED SEVENTY-ONE.

RESOLUTION

Establishing the Salaries of the Officers of the City of Lowell for the Year 1872-3.

RESOLVED, by the Mayor, Aldermen and Common Council of the City of Lowell, in City Council assembled, as follows:

The Salaries of the several City officers for the year beginning on the first Monday in January, one thousand eight hundred and seventy-two, shall be as herein mentioned; to be paid monthly, unless herein otherwise ordered.

- Section 1. The salary of the *Mayor* shall be at the rate of fifteen hundred dollars per annum.
- Sec. 2. The salary of the *City Clerk* shall be at the rate of two thousand dollars per annum, which shall be in full for his services, and all assistance he may require; and he shall account for all sums of money received in his official capacity.
- Sec. 3. The salary of the *City Treasurer* shall be at the rate of twenty-five hundred dollars per annum for performing the duties of City Treasurer and Collector of Taxes; and there shall be allowed his office the sum of three hundred dollars for clerk hire, and he shall appoint a clerk to render him such assist-

ance as may be required; he shall also give a bond in the sum of fifty thousand dollars, with good and sufficient sureties satisfactory to the Mayor and Aldermen, for the faithful performance of his duties, and for an account of all sums of money received for the sale of Water Bonds, or in the capacity of City Treasurer and Collector of Taxes.

- Sec. 4. The salary of the *Auditor of Accounts* shall be at the rate of sixteen hundred dollars per annum, which shall be in full for his services and for those of an assistant, and he shall account for all sums of money received by him in said capacity.
- Sec. 5. The salary of the *City Solicitor* shall be at the rate of fifteen hundred dollars per annum, which shall be in full for all services rendered the city, and he shall account for all sums of money received by him in said capacity.
- Sec. 6. The salary of the *Civil Engineer* shall be at the rate of eighteen hundred dollars per annum; which shall be in full for his services and those of an assistant; and he shall devote his whole time to the duties of the office, if necessary for the interests of the City, and he shall do no work for other parties without the consent of the Chairman of the Committees on Streets and on Sewers and Drains.
- Sec. 7. The salary of the City Physician and Superintendent of Burials shall be at the rate of seven hundred dollars per annum; and he shall furnish all medicines used by him in performing the duties of said office.
- Sec. 8. The salary of the Librarian of the City Library shall be at the rate of twelve hundred dollars

per annum; which shall be in full for his services and those of an assistant.

- Sec. 9. The salary of the *Clerk of the Common Council* shall be at the rate of four hundred dollars per annum.
- Sec. 10. The salary of the Messenger of the City Council shall be at the rate of one thousand dollars per annum.
- Sec. 11. The salary of the *Measurer of Wood* and *Bark* shall be at the rate of six hundred dollars per annum; and he shall account for all fees received by him in his official capacity, and shall pay the same into the Treasury monthly.
- Sec. 12. The salary of the *Pound Keeper* shall be at the rate of twenty-five dollars per annum; and he shall account for all sums of money received by him in said capacity.

POLICE.

- Sec. 13. The salary of the *City Marshal* shall be at the rate of fifteen hundred dollars per annum; and he is to furnish a horse and carriage for the use of the Marshal and his Deputy.
- Sec. 14. The compensation of the *Deputy Marshal*, and Captain of the Night Watch shall be at the rate of three dollars per day, each.

The compensation of the regular *Day Police* shall be at the rate of two dollars and fifty cents per day.

The compensation of the Night Police and all other Police officers, shall be at the rate of two dollars and fifty cents per day.

- Sec. 15. Police officers acting as Tythingmen shall receive no extra compensation therefor. All fees received by the officers mentioned in the two preceding sections, for attendance as witnesses, or for any other service in an official capacity, shall be paid by the officer receiving the same, to the City Treasurer. Provided, however, that said officers need not account for any fees for travel and attendance before the Supreme Judicial or the Superior Court, as witnesses.
- Sec. 16. The Standing Justice of the Police Court of Lowell shall be paid at the rate of one hundred dollars per annum, for receiving complaints, issuing warrants, and trying cases under the Forty-second Chapter of the General Statutes.

SUPERINTENDENTS AND INSPECTORS.

- Sec. 17. The salary of the Superintendent of Streets shall be at the rate of fifteen hundred dollars per annum.
- Sec. 18. The salary of the Superintendent of Public Buildings shall be at the rate of fifteen hundred dollars per annum, and he shall furnish a horse and carriage for the use of himself and the men under his charge, and shall engage in no other business or calling.
- Sec. 19. The salary of the Superintendent of City Scales shall be sixty per centum of the fees received by him per annum, and he shall settle with the Treasurer monthly. The Mayor and Aldermen shall fix the salary of said Superintendent when he and the Measurer of Wood and Bark are one and the same person, at the rate of two hundred dollars per annum,

in which case he shall account for all fees received by him in an official capacity, and shall pay the same into the Treasury monthly.

- Sec. 20. The salary of the *Inspector of Milk* shall be at the rate of twenty-five dollars per annum.
- Sec. 21. The salary of the Sealer of Weights and Measures shall be at the rate of three hundred dollars per annum, and no fees shall be charged for any official duty he may perform.

ASSESSORS' DEPARTMENT.

Sec. 22. The salary of the Chairman of the Board of Assessors shall be one thousand dollars per annum; and the salary of each of the other Assessors shall be eight hundred dollars per annum; and the said Assessors shall make out and distribute the tax-bills. The Assessors shall devote their whole time, from March 1st to October 15th, to the service of the City, and shall engage in no other business or calling. They shall jointly make a valuation of the real estate in the City, and enter the same in a book to be kept for mutual reference, the same to be done before entering upon a subdivision of their duties of assessing in May.

There shall be allowed this Department the sum of six hundred dollars for clerk hire, and the Board of Assessors shall choose two clerks, neither of whom shall be members of the Board, who shall act as office clerks, under the direction and control of said Board.

FIRE DEPARTMENT.

The salaries of the several members of the Fire Department for the year beginning January first, one thousand eight hundred and seventy-two, shall be as herein mentioned, to be paid semi-annually, unless otherwise ordered.

SEC. 23. The salary of the *Chief Engineer* shall be at the rate of fourteen hundred dollars per annum, payable quarterly, which shall be in full payment for all services which may be required of him by the City Council; and he shall devote his whole time to the duties of his office.

That of the Assistant Engineers shall be at the rate of one hundred and twenty-five dollars per annum.

The Secretary of the Board of Engineers, who shall be a member of the Board, shall receive twenty-five dollars additional, which shall be in full payment for all the services which may be required of him by the Mayor and Aldermen, the Chief Engineer, and the Board of Engineers.

The Foremen and Clerks of the respective Hose, Hook and Ladder, and Steam Fire Engine Companies, shall be paid at the rate of one hundred dollars, each, per annum.

The Stewards of Hose Companies shall be paid at the rate of one hundred and ten dollars per annum.

Said Stewards shall be members of the Companies for which they act, and said sums shall be in full payment for all their services as Stewards and Members of Companies.

Drivers of Steamers and Hook and Ladder Carriages, who shall perform all the duties of Stewards, shall be paid two dollars per day.

Engineers of Steam Fire Engines shall be paid at the rate of three hundred dollars per annum.

Assistant Engineers of Steam Fire Engines shall be paid at the rate of one hundred dollars per annum.

All other *Members* of Steam Fire Engine, Hose, and Hook and Ladder Companies, shall be paid at the rate of ninety dollars per annum.

SEC. 24. Whenever any person in the employment of the City shall demand payment of his salary, or any part thereof, it shall be the duty of the Auditor and City Treasurer to deduct therefrom any and all sums of money due from such officer to the City.

In Common Council, November 28, 1871.

Passed. HENRY P. PERKINS, President.

In Board of Aldermen, November 28, 1871.

Passed. E. F. SHERMAN, Mayor.

A true copy. Attest:

Samuel A. McPhetres, City Clerk.



CITY DOCUMENT.



LOWELL.

ANNUAL REPORT

OF THE

DIRECTORS OF THE CITY LIBRARY,

FOR THE YEAR 1871.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, December 26, 1871.

Read and sent to the Common Council.

SAMUEL A. McPHETRES, City Clerk.

In Common Council, December 26, 1871.

Received and read.

GEO. GARDNER, Clerk.

Knapp & Morey, Prs.

LIBRARIAN'S REPORT.

CONDITION OF THE LIBRARY.

Number of volumes added by purchase,	
Whole number of volumes added,	617
Whole number of volumes now in the Library,	15,245
Lost and not paid for,	4
Estimated value,	\$2 00
New subscribers,	571
Non-resident subscribers	
Whole number of subscribers,	
Whole number of volumes delivered,	
Average number daily	

Respectfully submitted.

MARSHALL H. CLOUGH,

Librarian.

DIRECTORS' ROOM, CITY LIBRARY, LOWELL, December 26, 1871.

TO THE CITY COUNCIL OF LOWELL:

The Directors of the City Library, in compliance with the requirements of a city ordinance, herewith submit their annual report, viz.:

RECEIPTS.

Balance undrawn, January 1st, 1871,	\$2, 500	03		
Appropriation,	500	00		
Amount of balance received from county, and				
transferred to Library account,	1,486	80		
Subscriptions,	569	50		
Sale of Catalogues and Supplements,	63	80	•	
Fines,	26	20		
Books lost,	8	80		
Total receipts,		•••	\$5,155	13

EXPENDITURES.

EXPENDITURES.				
Salary of Librarian,	\$1,000	00		
Books for circulation,	712			
Blank books and stationery,	26	55		
Binding,	193	81		
Paper for covers,	10	26		
Printing,	8	50		
Postage and expressage,	6	88		
Sundries,	3	25		
Insurance,	30	00		
Total expenses,	• • • • • • •		1,991	46
Balance undrawn,	• • • • • •	• • •	\$3,163	67

This statement fulfils the prediction of last year's Board of Directors, and shows a balance undrawn still greater than it was at the beginning of the year. appropriation in 1870, was \$1,500. This year, \$500; and had no appropriation been made, the balance would have been greater than that of last year by \$163.64. The source of this income is at once obvious, viz: the amount received from the county and transferred to the library account. The expenses of next year will very probably be much greater, due to the removal of the library, but the directors must express their pleasure that its benefits can be diffused at so trifling a cost to the city, under prsent legislative enactments. The directors, it is almost needless to say, have not been influenced by their knowledge of this surplus, in their choice of books, but have purchased those added to the library with an eye to their usefulness, and to their affording innocent recreation and amusement to the patrons of the library.

The directors desire to state that in the Librarian, Mr. Marshall H. Clough, the city possesses an efficient and courteous servant, and one who is steadily attentive to his duties, as the present condition of the books in the library will attest. The praise of former boards is just.

The Directors are happy to be able to call your attention to the increasing usefulness of the library. Although closed for several weeks, and, although many subscribers ceased to take books therefrom, previous to its closing, (from dread of the scourge we have had this summer,) it appears from the Librarian's report, the daily average circulation of books has been greater, this year, than in the preceding ones. They also congratulate the City Council on the prospect of improved library accommodations. In one respect they feel confident it will certainly

meet with the unqualified approbation of many of its patrons, in this, that it will be easier of access from the street. They indulge the hope that arrangements will be such that the reference room may be made more available and useful to the citizens at large.

The number of volumes and pamphlets received as gifts is greater than that of last year, but the directors would like to suggest that it might be made much larger by many of their own fellow citizens enrolling their names as donors. Many buy books for casual reading, which, after having read, they care little for, and which they toss aside. It would be a boon if these were given to the City Library, where many who have equal curiosity, but unequal purses, could have the perusal. Many works are published which the Directors feel they would not be justified in purchasing in quantities, that would even, in a moderate degree, supply the demand.

LIST OF DONORS TO THE CITY LIBRARY.	Volumes.	Pamph- lets.	Papers.
Allen, Nathan, M. D.	1		
American Peace Society	_ ^		9
American Unitarian Association		26	
Batchelder, Rev. George		1	
Boston Public Library	[$\overline{7}$	
Brooks, Hon. George M	21	8	
Buffalo Young Men's Christian Association		í	
Charlestown Public Library		3.	
Cincinnati Public Library.	1	3	
Cook, Hon. J. H		5	
Cooper Union, New York City		4	
Duganne, Rev. H. C.		$\overset{\star}{2}$	
Fall River Public Library		4	
Fish, Hon. Hamilton	6	*	
Fitchburg Free Library		3	
Folsom, Hon. J. P.	2	1	
Genin, Hon. J. N.	1	1	
Hartford Young Men's Institute		4	
Librarian of Congress		1	
Librarian of Congress			
Monoboston Dublic Librory		2	
Manchester Public Library	1	1	
Moreontile Library, Doston	1	1	
Mercantile Library, New York City		7	
Mercantile Library, Philadelphia		5	
Mercantile Library, San Francisco		1	
New Bedford Public Library		1	
Oliver, Hon. Henry K	1		
Potter, D. T. & L. H.		2	
Providence Athenæum	_	5	
Scoville, Hon. J. C	1		
Smithsonian Institution	- 1		
State Board of Health		1	
Stone, Z. E. Esq	1		
Sumner, Hon. Charles	7	1	
Taunton Public Library		6	
Waltham Public Library		1	
Watertown Public Library		1	
Worcester Public Library		3	
Total,	44	108	9

All of which is respectfully submitted.

E. F. SHERMAN,
H. P. PERKINS,
WM. HARDMAN.
G. A GERRY,
J. S. POLLARD,
H. P. CARTER,
W. O. FISKE,
A. B. FARR,

Directors.



CITY DOCUMENT.

CITY OF



LOWELL.

ANNUAL REPORT

OF THE

CITY PHYSICIAN,

AND

SUPERINTENDENT OF BURIALS, FOR THE YEAR 1871.

CITY OF LOWELL.

In Board of Aldermen, January 23, 1872.

Read and sent to the Common Council,

SAMUEL A. McPHETRES, City Clerk.

In Common Council, January 23, 1872.

Received and read.

GEO. GARDNER, Clerk.

Knapp & Morey, Prs.

REPORT.

Lowell, January 22d, 1872.

TO THE CITY COUNCIL:

I have the honor to submit the following report of the mortality of the city of Lowell for the year 1871:

The whole number of deaths during the year was 1,033; 501 of these were males, and 532 females, being 81 more deaths than during the preceding year, and also the same number more than in any other year since the incorporation of the city.

This would seem to indicate an unusually sickly period, yet when we consider that 178, or more than one-sixth of this number was caused by an epidemic of small pox, the like of which we are seldom subjected to, and that when the deaths from this disease are deducted from the total, we have a smaller number than during the previous year, we feel, at least, that the unusual mortality proceeded from an unusual cause. In fact, you will perceive, by examining the succeeding pages and tables of this report, and comparing them with those of the year 1870, that the number of deaths from the diseases usually most prevalent among us, is less in almost every instance.

During the year there were nine deaths at the Almshouse. The cause of death, with age of deceased, was as

follows: Four died from old age, two males and two females, aged respectively 84, 89, 79 and 76 years; one death, a female, 35 years of age, from insanity; two females, aged 28 and 30 years, from peritonitis; one child a year old, died from scrofula, and one, a male, 50 years of age, sick with brain fever, lived only one day after being taken to the house. There were no deaths from acute diseases at the Alms-house, except those carried there sick with the same, save one, but as has generally been the case, nearly all the sickness was from chronic diseases.

The number of visits made during the year as City Physician, was as follows: To the Alms-house, 164; small-pox hospital, about 200; police station, about 600; to patients at their homes in small-pox cases, and others, nearly 1,000, making in all, nearly 2,000 visits, and almost three times as many as were visited by the City Physician in 1870. Aside from this, twenty-six insane persons were attended and examined, twenty-five of whom were committed to the Asylum at Worcester, the remaining case dying at home. In addition to the above labor, nearly five hundred office patients were prescribed for, and about one hundred and fifty poor vaccinated and re-vaccinated, for which no special charge was made to the city.

Small-pox was the cause of the largest number of deaths during the year. It seems to have been brought to us by an emigrant family the last of December, 1870, who located themselves on Mill street, and, ere the proper authorities were aware of its visit, one of their children had died, been waked one or two nights and buried, and the other so far convalescent as to be able to go out of doors. The family seems to have taken every precaution to con-

ceal the facts from their neighbors, even after the death of the child, assuming that it died of measles, and so reported it to the undertaker, and through the undertaker to me, so that it was only after some considerable time had elapsed that we became aware that we had been deceived. A great many people went to the wake, as usual, and went away not at all aware of the danger to which they had been exposed, but, strange to say, not one of those wakers, as far as I could ascertain, was affected by it. Doubtless they, through the medium of their clothing, served to distribute it to other parts of the city, but they themselves escaped, and what perhaps is stranger still, is the fact, that from the beginning of that epidemic to the present time, Mill street, where the disease commenced, escaped with only two cases besides the two brought from the ship, owing doubtless, in a great measure to the prompt and energetic action of the old board of health in immediately debarring, as far as possible, communication with the infected premises, and seeing that the people near and on the street were vaccinated and re-vaccinated. They did everything that could have been done except to forcibly remove the convalescent case to the hospital, and in their opinion, the law distinctly took away all power so to do in small-pox cases were, in all, about 580 cases, and 178 deaths. But after the recent and general circulation of the report on smallpox of the new board of health and consulting physicians, it would seem superfluous for me to add more. Therefore, after referring any seeking further information to that part of their report which deals with facts relating to smallpox, its causes and means of banishment, as adopted and printed by the City Council of 1871, I will close my remarks on this disease by simply saying that I trust and

hope, after such an experience, no parent will ever again neglect to see that his children are all vaccinated and re-vaccinated as often as once in five years, and that the law requiring children to be vaccinated and re-vaccinated before entering our public schools, will be rigidly enforced. Should this matter of vaccination receive the attention due it, we need never fear another such an epidemic of small-pox.

Consumption, for the first time for many years, ranks second as cause of death, having for its number 168. Sixty-eight of these were males, and one hundred females, nearly as many as the above mentioned disease, and a larger number than ever before, yet, in proportion to the number of deaths for the year, smaller than the average for the past ten years, being about one-sixth of the whole number.

Inflammation of lungs, the next in rank, numbers 54 deaths. Thirty of these were males and twenty-four females; eight deaths more than from the same disease last year, and eighteen more than the average for the past ten years.

Old age seems to have occasioned the next largest number, causing 52 deaths; fourteen males and thirty-eight females. There were nine between 60 and 70; thirteen between 80 and 90 years and over. One man, Arthur Ivers, Gorham street, reached the remarkable age of 106 years, and another, Patrick Cummiskey, Lowell street, 102 years. Two others reached the advanced age of 95 and 99 years.

Infantile comes next, and was the cause of 36 deaths; twenty-seven males and nine females. It cannot strictly be called a disease, yet it is the term applied to the decease of children with feeble constitutions, defective

vitality, &c. In fact, those having been endowed at birth with sufficient strength to live only for a few days or months, and generally children of poor, ill-fed, or delicate mothers, who have not the proper nourishment or strength to impart to their offspring.

Cholera Infantum, the next on the list, was the cause of 35 deaths, only one-half the number from the same disease in 1870, and less than the average number for the past ten years. This pleasing and encouraging decrease was doubtless owing to the noble and indefatigable exertions and labors of the old board of health, ably seconded by health commissioner Lang, in seeing that the streets, alleys, courts, &c., were thoroughly cleansed, purified and drained, filth of all kinds removed, and the utmost care given to preventing, as far as possible, the crowding of the poor into unhealthy, miserable and ill-ventilated houses or places, sparing neither time nor labor in so doing, giving to those poor creatures, who, sick and poverty-stricken, were unable to help themselves, a better, purer atmosphere than they had known for many a year, thereby removing the most prolific source of the disease.

Scarlet fever, the next in fatality, numbers 32; twenty males and twelve females, twenty-two more than last year, but less than the average number for the past ten years.

Measles, which heads the list of contagious diseases in 1870, and caused thirty-seven deaths, was the cause of only three the past year.

Typhoid fever, the next most prominent cause of death, stands 28 against 33 in the preceding year, yet still more than the average for ten years past. Eleven were males and seventeen females. Only eight of the deaths were Americans, the remaining twenty being of foreign birth,

so that it seems that it is not quite a settled question that persons living in the better portion of the city, where the streets, courts, &c., are properly cleaned and drained, and giving more attention to the laws of health, are more particularly liable to typhoid fever than those living in the poorest quarters, where hygienic laws are entirely disregarded. The largest number from this disease died during the months of January, April, October and November.

Heart disease, the ninth on the list, counts 26 deaths; eleven males and fifteen females; eleven less than in 1870, yet six more than the average for the last ten years, but apoplexy, another frequent cause of sudden death, and which, during 1870, numbered 20, the past year numbers only 16, showing, in comparing the number of sudden deaths of the years 1870 and 1871, a decrease of sixteen.

Convulsions stands the same in rank as heart disease, having also caused 26 deaths; thirteen males and thirteen females. Sixteen of these were children under one year of age, and the remaining nine under five years. As is perceptible, it is an affection to which children of delicate health, with a morbid irritability of the nervous centres are particularly prone.

The occupations of the males over twenty years of age were as follows: Operatives, 61; laborers, 61; carpenters, 18; grocers and traders, 12; machinists, 6; clerks and painters, each, 5; overseers, 4; farmers, shoemakers, and blacksmiths, each, 3; pattern-makers, pedlers, photographers, block-printers, tanners, masons, tinsmith, and cabinet makers, each, 2; real estate agent, belt-maker, moulder, dyer, agent, soap-maker, brick-layer, engraver, harness-maker, brakeman, shuttle manufacturer, carriage manufacturer, broker, inspector, printer, watch-maker, stone-cutter, and stencil-cutter, each, 1.

The dead were interred as follows: 100 in the cemetery; 643 in the Catholic grounds; 69 carried out of the city, and the remainder buried in the other burial grounds of the city.

The usual tables are affixed, giving the cause of death, age, sex and nativity of deceased, and a comparison of some of the most fatal diseases with those of preceding years.

I have the honor to be,

Yours very respectfully,

WALTER H. LEIGHTON,

City Physician and Sup't of Burials.

TABLE 2.

DEATHS IN EACH MONTH FOR THE LAST TEN YEARS.

Months.	1862	1863	1864	1865	1866	1867	1868	1869	1870	1871	Total for each month.
January,	52	79	52	45	72	71	65	72	87	89	684
February,	55	62	44	49	55	43	61	49	84	66	568
March,	48	74	60	39	61	52	79	62	73	72	620
April,	60	55	62	42	58	47	57	44	61	78	564
May,	50	60	54	37	61	41	.45	54	58	77	537
June,	45	58	48	40	56	51	45	45	69	75	532
July,	31	52	56	59	72	58	76	70	116	119	709
August,	66	64	79	69	58	68	111	80	103	119	817
September,	73	58	47	43	67	57	78	74	76	135	708
October,	50	41	44	55	51	50	75	74	82	88	613
November,	55	43	49	44	72	56	84	64	70	54	591
December,	56	46	38	53	66	46	81	75	73	61	595
Total	641	695	633	575	749	640	857	763	952	1033	7538

TABLE 3.

NUMBER OF DEATHS FROM SOME OF THE MOST PREVALENT DISEASES ${\rm IN} \ {\rm THE} \ {\rm LAST} \ {\rm TEN} \ {\rm YEARS}.$

DISEASES OR CAUSES OF DEATH.	1862	1863	1864	1865	1866	1867	1868	1869	1870	1871	Toral
Dropsy of Brain,	17	17	15	19	25	34	9	18	10	11	175
Cholera Infantum,	31	20	31	50	32	35	44	33	70	35	381
Consumption,	141	143	153	123	128	146	156	147	151	168	1456
Croup,	22	26	12	12	20	13	14	23	28	15	186
Disease of Heart,	22	15	8	15	24	13	32	15	38	26	208
Dysentery,	3	10	11	13	21	4	17	11	8	2	100
Infantile,	39	29	27	28	21	23	44 .	39	50	36	336
Inflammation Lungs,	21	43	37	24	25	34	42	31	46	54	357
Marasmus,	13	7	7	• 14	6	3	8	7	22	8	95
Scarlet Fever,	53	85	17	26	2	15	95	42	10	32	377
Typhoid Fever,	16	16	17	17	23	27	26	34	33	28	237
Diptheria,	15	39	34	7.	18	11	3	7	3	8	145

TABLE 4.

DEATHS IN LOWELL SINCE ITS INCORPORATION.

1827. 50 1842. 473 1857. 818 1828. 32 1843. 364 1858. 626 1829. 66 1844. 362 1859. 739
101011111111111111111111111111111111111
1829 66 1844 362 1859 739
1830
1831
1832
1833
1834
1835 $229 1850$ $492 1865$ 575
1836
1837
1838
1839340 1854834 1869763
1840
1841434 1856790 18711033

TABLE 5.

NATIVITY OF THOSE DECEASED WITHIN THE YEAR 1871.

Born in United States:	654	
Ireland		
Canada		
England	46	
Scotland	3	
New Brunswick,	4	
Findland	1	
Unknown	19	
T-4-1	1.022	

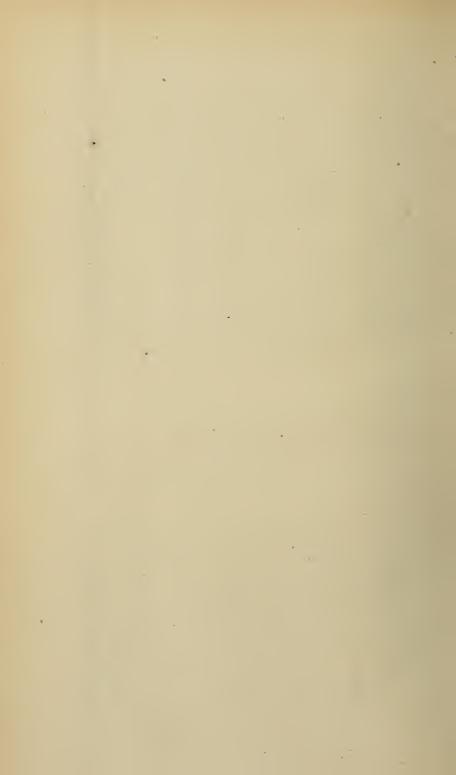
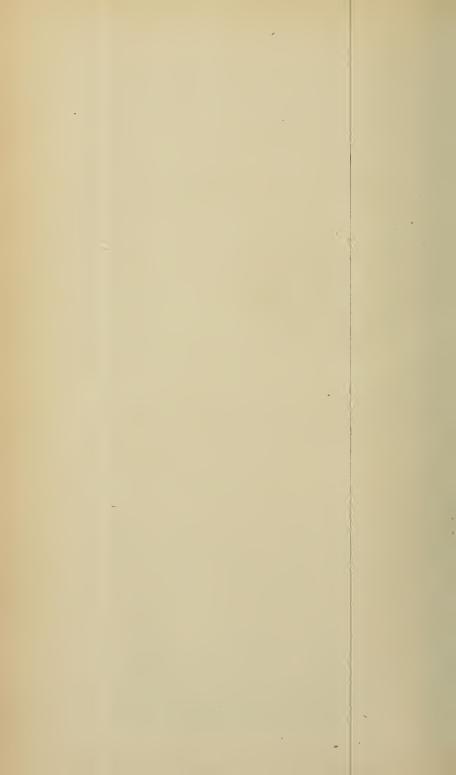


TABLE 1.

EXHIBITING THE NUMBER OF DEATHS IN THE CITY OF LOWELL, IN EACH MONTH, DURING THE YEAR 1871, WITH THE CAUSE, AGE AND SEX.

10 to 15 years. 15 to 20 years. 15 to 20 years. 20 to 50 years. 20 to 50 years. 40 to 50 years. 50 to 60 years. 50 to 80 y	1 1 1 1 1 1 1 1 1 1
10 to 15 years. 15 to 20 years. 20 to 50 years. 30 to 40 years. 40 to 50 years. 50 to 60 years. 50 to 60 years.	1
10 to 15 years. 15 to 20 years. 20 to 50 years. 30 to 40 years. 40 to 50 years.	1
10 to 15 years. 15 to 20 years. 20 to 40 years. 30 to 40 years.	1
10 to 15 years. 15 to 20 years. 20 to 50 years. 30 to 40 years.	13 13 14 15 15 15 15 15 15 15
10 to 15 years.	13 1 1 1 1 1 1 1 1 1
10 to 15 years.	
10 to 15 years.	
5 to 10 years.	6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2 to 5 years.	
1 to 2 years.	
Under 1 year.	
December.	
November.	
October.	
September.	
August.	
July.	
June.	
May.	
.lingA	
March.	
February.	- 이 : : : : : : : : : : : : : : : : : :
January.	9
Total.	
Female.	4.18 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Males.	4 : 12 - 12 - 12 - 13 - 14 - 14 - 14 - 15 - 15 - 14 - 15 - 15
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CITY OF LOWELL.



SALARIES

OF THE

OFFICERS OF THE CITY OF LOWELL,

FOR THE YEAR 1872-73.



CITY OF LOWELL.

IN THE YEAR EIGHTEEN HUNDRED SEVENTY-ONE.

RESOLUTION

Establishing the Salaries of the Officers of the City of Lowell for the Year 1872-3.

RESOLVED, by the Mayor, Aldermen and Common Council of the City of Lowell, in City Council assembled, as follows:

THE SALARIES of the several City officers for the year beginning on the first Monday in January, one thousand eight hundred and seventy-two, shall be as herein mentioned; to be paid monthly, unless herein otherwise ordered.

- Section 1. The salary of the *Mayor* shall be at the rate of fifteen hundred dollars per annum.
- Sec. 2. The salary of the *City Clerk* shall be at the rate of two thousand dollars per annum, which shall be in full for his services, and all assistance he may require; and he shall account for all sums of money received in his official capacity.
- Sec. 3. The salary of the *City Treasurer* shall be at the rate of twenty-five hundred dollars per annum for performing the duties of City Treasurer and Collector of Taxes; and there shall be allowed his office the sum of three hundred dollars for clerk hire, and he shall appoint a clerk to render him such assist-

ance as may be required; he shall also give a bond in the sum of fifty thousand dollars, with good and sufficient sureties satisfactory to the Mayor and Aldermen, for the faithful performance of his duties, and for an account of all sums of money received for the sale of Water Bonds, or in the capacity of City Treasurer and Collector of Taxes.

- Sec. 4. The salary of the Auditor of Accounts shall be at the rate of sixteen hundred dollars per annum, which shall be in full for his services and for those of an assistant, and he shall account for all sums of money received by him in said capacity.
- Sec. 5. The salary of the *City Solicitor* shall be at the rate of fifteen hundred dollars per annum, which shall be in full for all services rendered the city, and he shall account for all sums of money received by him in said capacity.
- Sec. 6. The salary of the *Civil Engineer* shall be at the rate of eighteen hundred dollars per annum; which shall be in full for his services and those of an assistant; and he shall devote his whole time to the duties of the office, if necessary for the interests of the City, and he shall do no work for other parties without the consent of the Chairman of the Committees on Streets and on Sewers and Drains.
- Sec. 7. The salary of the City Physician and Superintendent of Burials shall be at the rate of seven hundred dollars per annum; and he shall furnish all medicines used by him in performing the duties of said office.
- Sec. 8. The salary of the Librarian of the City Library shall be at the rate of twelve hundred dollars

per annum; which shall be in full for his services and those of an assistant.

- Sec. 9. The salary of the *Clerk of the Common Council* shall be at the rate of four hundred dollars per annum.
- Sec. 10. The salary of the Messenger of the City Council shall be at the rate of one thousand dollars per annum.
- SEC. 11. The salary of the *Measurer of Wood* and *Bark* shall be at the rate of six hundred dollars per annum; and he shall account for all fees received by him in his official capacity, and shall pay the same into the Treasury monthly.
- Sec. 12. The salary of the *Pound Keeper* shall be at the rate of twenty-five dollars per annum; and he shall account for all sums of money received by him in said capacity.

POLICE.

- Sec. 13. The salary of the *City Marshal* shall be at the rate of fifteen hundred dollars per annum; and he is to furnish a horse and carriage for the use of the Marshal and his Deputy.
- Sec. 14. The compensation of the *Deputy Marshal*, and Captain of the Night Watch shall be at the rate of three dollars per day, each.

The compensation of the regular *Day Police* shall be at the rate of two dollars and fifty cents per day.

The compensation of the Night Police and all other Police officers, shall be at the rate of two dollars and fifty cents per day.

- Sec. 15. Police officers acting as Tythingmen shall receive no extra compensation therefor. All fees received by the officers mentioned in the two preceding sections, for attendance as witnesses, or for any other service in an official capacity, shall be paid by the officer receiving the same, to the City Treasurer. Provided, however, that said officers need not account for any fees for travel and attendance before the Supreme Judicial or the Superior Court, as witnesses.
- Sec. 16. The Standing Justice of the Police Court of Lowell shall be paid at the rate of one hundred dollars per annum, for receiving complaints, issuing warrants, and trying cases under the Forty-second Chapter of the General Statutes.

SUPERINTENDENTS AND INSPECTORS.

- Sec. 17. The salary of the Superintendent of Streets shall be at the rate of fifteen hundred dollars per annum.
- Sec. 18. The salary of the Superintendent of Public Buildings shall be at the rate of fifteen hundred dollars per annum, and he shall furnish a horse and carriage for the use of himself and the men under his charge, and shall engage in no other business or calling.
- Sec. 19. The salary of the Superintendent of City Scales shall be sixty per centum of the fees received by him per annum, and he shall settle with the Treasurer monthly. The Mayor and Aldermen shall fix the salary of said Superintendent when he and the Measurer of Wood and Bark are one and the same person, at the rate of two hundred dollars per annum,

in which case he shall account for all fees received by him in an official capacity, and shall pay the same into the Treasury monthly.

- Sec. 20. The salary of the *Inspector of Milk* shall be at the rate of twenty-five dollars per annum.
- Sec. 21. The salary of the Sealer of Weights and Measures shall be at the rate of three hundred dollars per annum, and no fees shall be charged for any official duty he may perform.

ASSESSORS' DEPARTMENT.

SEC. 22. The salary of the Chairman of the Board of Assessors shall be one thousand dollars per annum; and the salary of each of the other Assessors shall be eight hundred dollars per annum; and the said Assessors shall make out and distribute the tax-bills. The Assessors shall devote their whole time, from March 1st to October 15th, to the service of the City, and shall engage in no other business or calling. They shall jointly make a valuation of the real estate in the City, and enter the same in a book to be kept for mutual reference, the same to be done before entering upon a subdivision of their duties of assessing in May.

There shall be allowed this Department the sum of six hundred dollars for clerk hire, and the Board of Assessors shall choose two clerks, neither of whom shall be members of the Board, who shall act as office clerks, under the direction and control of said Board.

FIRE DEPARTMENT.

The salaries of the several members of the Fire Department for the year beginning January first, one thousand eight hundred and seventy-two, shall be as herein mentioned, to be paid semi-annually, unless otherwise ordered.

SEC. 23. The salary of the *Chief Engineer* shall be at the rate of fourteen hundred dollars per annum, payable quarterly, which shall be in full payment for all services which may be required of him by the City Council; and he shall devote his whole time to the duties of his office.

That of the Assistant Engineers shall be at the rate of one hundred and twenty-five dollars per annum.

The Secretary of the Board of Engineers, who shall be a member of the Board, shall receive twenty-five dollars additional, which shall be in full payment for all the services which may be required of him by the Mayor and Aldermen, the Chief Engineer, and the Board of Engineers.

The Foremen and Clerks of the respective Hose, Hook and Ladder, and Steam Fire Engine Companies, shall be paid at the rate of one hundred dollars, each, per annum.

The Stewards of Hose Companies shall be paid at the rate of one hundred and ten dollars per annum.

Said Stewards shall be members of the Companies for which they act, and said sums shall be in full payment for all their services as Stewards and Members of Companies.

Drivers of Steamers and Hook and Ladder Carriages, who shall perform all the duties of Stewards, shall be paid two dollars per day.

Engineers of Steam Fire Engines shall be paid at the rate of three hundred dollars per annum.

Assistant Engineers of Steam Fire Engines shall be paid at the rate of one hundred dollars per annum.

All other *Members* of Steam Fire Engine, Hose, and Hook and Ladder Companies, shall be paid at the rate of ninety dollars per annum.

Sec. 24. Whenever any person in the employment of the City shall demand payment of his salary, or any part thereof, it shall be the duty of the Auditor and City Treasurer to deduct therefrom any and all sums of money due from such officer to the City.

IN COMMON COUNCIL, November 28, 1871.

Passed. HENRY P. PERKINS, President.

IN BOARD OF ALDERMEN, November 28, 1871.

Passed. E. F. SHERMAN, Mayor.

A true copy. Attest:

Samuel A. McPhetres, City Clerk.



CITY DOCUMENT.





LOWELL.

ANNUAL REPORT

OF THE

BOARD OF ENGINEERS

OF THE

LOWELL FIRE DEPARTMENT,

FOR THE YEAR 1871.

STONE & HUSE, PRS.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, April 3, 1872.

Read and accepted.

SAMUEL A. McPHETRES, City Clerk.

REPORT.

ENGINEER'S ROOM, GOVERNMENT BUILDING, LOWELL, April 1st, 1872.

To the Honorable Mayor and Board of Aldermen:

In compliance with the ordinances of the city, and in consequence of the death of the late Chief, Weare Clifford, after a long and honorable service in this Department, the Annual Report of the condition of the Fire Department is submitted by the Board of Engineers.

Appended are the rolls of the several companies, their names, ages, residences, and occupations; also, the apparatus and property owned by the city, under their charge; the number of hydrants; a list of the reservoirs, giving their location; a list of signal boxes connected with the fire-alarm telegraph; also, a tabular statement of the fires and alarms which have occurred during the past year, with loss and insurance on property, as near as could be ascertained. The whole number of fires and alarms from April 1st, 1871, to March 31st, 1872, has been fifty-eight, at twenty-five of which the services of the Department were needed.

Since August 19th, 1871, at which time the fire-alarm telegraph went into operation, there have been forty-three alarms, at sixteen of which the services of the Department were needed. Twenty-five were for slight causes, mostly burning chimneys, and two were false alarms.

It was anticipated that the introduction of the telegraph would obviate to a considerable extent unnecessary alarms; thus far that anticipation has not been realized.

When key-holders understand its workings and practical results, every alarm which calls the Department out being a source of expense to the city, needless alarms will be less frequent.

The amount of loss by fires, as near as could be ascertained, is \$81,100, upon which the insurance is \$59,700. Loss above insurance, \$21,400.

Respectfully submitted.

GEORGE HOBSON,

Secretary.

ASSISTANTS.

Badge.	Name.	Age.	Occupation.	Residence.
\mathbf{A}	Arlen, Charles H.	44	Gas Fitter,	Perrin Street.
В	Taylor, Samuel W.	42	Carpenter,	172 Merrimack Corp.
C	Bates, William W.	48	Teamster,	158 School Street.
. D	Hobson, George	46	Clerk,	24 Linden Street.

FOREMEN OF THE SEVERAL COMPANIES.

Name.	Age.	Occupation.	Residence.
Henry W. Burton,	31	Carpenter,	13 John Street.
Ruel F. Britton,	26	Grocer,	Middlesex Street.
Vacant. Steamer No. 2. Steamer No. 3.			
Cyrus E. Luscomb,	34	Painter,	23 Common Street.
Ward S. Dudley, Mechanics' Hose, No. 2.	41	Carpenter,	7 Franklin Court.
J. E. Hill, Excelsior Hose, No. 3.	32	Carpenter,	14 Charles Street.
E. S. Hosmer, Mazeppa Hose, No. 4.	34	Butcher,	2 Livermore Street.
H. N. Hall, Franklin Hook and Ladder Co.	43	Moulder,	Elliott Street.

HOPE STEAM FIRE ENGINE CO., No. 1.

13 Members. House on Middle Street.

	Name.	Age.	Occupation.	Residence.
Foreman,	Burton, H. W.	31	Carpenter,	13 John Street.
Ass't do.,	Sleeper, A. A.	32	Carpenter,	16 Adams Street.
Clerk,	Mason, A. A.	29	Manufacturer,	55 Worthen Street.
Engineer,	Locke, J. J.	39	Machinist,	105 Central Street.
Ass't do.,	Phelan, W. H.	36	Machinist,	9 Davis Street.
Driver,	Lord, J. F.	29	Driver S.F.E.	1 City Hall Avenue.
Hoseman,	Chase, C. E.	26	Lather,	65 Charles Street.
"	Bogle, J.	23	Manufacturer,	86 Middlesex St.
46	Coazer, C. F.	31	Clerk,	29 Market Street.
"	Black, A. B.	24	Painter,	Engine House.
"	Durkey, C. E.	24	Moulder,	Boott Corp.
"	Colby, J.	22	Carpenter,	Engine House.
*	Lord, A. C.	27	Laborer,	Engine House.

Apparatus and Property owned by the City, in care of this Company.

Steamer Hope, built by the Union Machine Co., of Fitchburg, in 1870. This steam engine has two double-acting steam cylinders, 8-inch diameter and 8-inch stroke, and two double-acting pumps, $4\frac{3}{8}$ inches diameter. The pumps are so arranged that they can be worked separately, in case of an accident to either of them; the boiler will make steam enough to run the engine in five minutes; weight when loaded, 7575 lbs.; 30 feet suction hose with hydrant couplings; hose carriage, carrying 500 feet hose; 1600 feet $2\frac{1}{2}$ -inch leading hose; 6 reducing couplings; 1 spreading nozzle; 1 two-way chuck; 2 axes; 2 horses; 1 pair harnesses; 4 blankets; 1 pair hoods; 1 pair lead bars; 1 whiffletree; 3 beds and bedding; 1 bureau; 18 cane-seat chairs; 1 table; 1 mirror; 1 wood stove; tools for cleaning horses and repairs on engine.

TORRENT STEAM FIRE ENGINE CO., No. 2. 13 Members. House on Middlesex Street.

	Name.	Age.	Occupation.	Residence.
Foreman,	Britton, R. F.	26	Grocer,	Engine House.
Ass't do.,	Leavitt, C. E.	26	Moulder,	42 Worthen Street.
Clerk,	Britton, F. T.	23	Machinist,	213 Middlesex St.
Engineer,	Maddocks, G.	29	Machinist,	Thorndike Street.
Ass't do.,	Hibbert, Chas.	26	Machinist,	Rear of Engine H.
Driver,	Hyatt, William	29	Driver S.F.E.	Rear of Engine H.
Hoseman,	Stearns, A. C.	29	Cabinet mak'r	Engine House.
"	Boynton, H.	22	Moulder,	Engine House.
"	French, Charles	22	Cabinet mak'r	Elliott Street.
"	Cooledge, M.	22	Moulder,	Engine House.
"	Hill, J.	22	Machinist,	Cor. Cen'l & Mid'x.
"	Hayward, Wm.	22	Machinist,	Liberty Square.
_ "	Snell, John	22	Machinist,	18 Marshall Street.

Apparatus and Property owned by the City, in care of this Company.

Steamer Torrent, built by Hunneman & Co., Boston. This engine has two double-acting steam cylinders, 8-inch diameter, and 8-inch stroke, and two double-acting pumps, 4\frac{3}{8} inches in diameter. The pumps are so arranged that they can be worked separately in case of an accident to either of them; the boiler will make steam enough to run the engine in five minutes; weight when loaded, 7720 lbs.; 30 feet suction hose with hydrant couplings; hose carriage carrying 500 feet hose; 1450 feet 2\frac{1}{2}-inch hose; 1 axe; 1 reducer; 1 spreading nozzle; 2 horses; 2 pair harnesses; 1 pair blankets and hoods; 1 pair lead bars; 1 two-way chuck; 1 copper boiler; 1 jack screw; 75 feet small rubber hose; 4 ladder-straps; 3 lanterns; 1 increaser; 3 beds and bedding; 14 cane-seat chairs; 12 common chairs; 1 table; 2 stoves; 1 bureau; 1 fuel wagon; tools for cleaning horses; 1 rotary pump; 1 common pump.

WAMESIT STEAM FIRE ENGINE CO., No. 3.

13 Members. House on Middle Street.

	Name.	Age.	Occupation.	Residence.
Foreman,	Vacant.			
Ass't do.,	Vacant.			
Clerk,	White, J. W.	23	Merchant,	263 Central Street.
Engineer,	Stratton, T. E.	34	Fire Al'm Su.	14 Ames Street.
Ass't do.,	Brown, E. L.	34	Machinist,	41 Mass. Corp.
Driver,	Parsons, F. D.	24	Driver S.F.E.	Engine House.
Hoseman,	Roberts, W. A.	23	Machinist,	Engine House.
66	Little, E. J.	25	Machinist,	83 Prince Street.
66	Abbott, F. A.	24	Clerk,	11 Harrison Street.
66	Bailey, G. E.	22	Gas Fitter,	122 Central Street.
"	Powers, Wm.	24	Machinist,	Lawrence Corp.
"	Whitney, G. B.	26	Expressman,	131 E. Merrim'k St.
"	Kimball, L. S.	22	Expressman,	131 E. Merrim'k St.

Apparatus and Property owned by the City, in care of this Company.

Steamer built by Hunneman & Co., Boston, 1866, of the same style, capacity, &c., as Steamers Nos. 1 and 2; weight when loaded, 7650 lbs.; 30 feet suction hose, with hydrant couplings; hose carriage, carrying 500 feet hose; 2 reducers; 1 axe; 1 spreading nozzle; 1700 feet $2\frac{1}{2}$ -inch hose; 18 cane-seat chairs; 1 two-way chuck; 2 mirrors; 1 bureau; 3 beds and bedding; 1 wood stove; 2 jack screws; 2 horses; 2 pair harnesses; 4 blankets; 1 pair lead bars; 13 hat fronts; and all tools necessary for cleaning horses and repairs on engine.

The following articles are owned by the City, and are used by both Companies, Nos. 1 and 3: 2 whiffletrees; 1 large stove; 1 clock; 50 feet \(\frac{3}{4}\)-inch rubber hose, and pipe; 1 copper boiler; 1 fuel wagon; 1 pair runners.

RELIEF STEAM FIRE ENGINE CO., No. 4.

2 Members. House on Warren Street.

	Name.	Age.	Occupation.	· Residence.
Engineer,	Roberts, J. P.	32	Engineer,	74 Cross Street.
Ass't do.,	Merchant, J. G.	33	Engineer,	71 Mechanic Street.

Apparatus and Property owned by the City, in care of this Company.

Engine built by Silsby, Mynderse & Co., Seneca Falls, N. Y., 1861, on the rotary principle, 12-inch engine, 6-inch pump. In 1866 a new boiler was built by Hunneman & Co., of Boston, which will make steam enough to run the engine in five minutes; weight when loaded, 8300 lbs.; 30 feet of suction hose, with hydrant couplings; hose carriage built by Joel Jenkins, in 1861, drawn by horse, carrying 800 feet hose; 1 harness; 400 feet $2\frac{1}{4}$ -inch hose, in good condition; 800 feet of hose, not reliable.

The above apparatus does not come out at an alarm of fire unless sent for.

OCEAN HOSE COMPANY, No. 1.

12 Members. House on Warren Street.

	Name.	Age.	Occupation.	Residence.
Foreman,	Luscomb, C. E.	34	Painter,	23 Common Street.
Ass't do.,	Hanson, C. H.	27	Teamster,	16 Rock Street.
Clerk,	Cooper, S. G.	26	Cop. stamp m.	29 Suffolk Street.
Steward,	Doyle, William	56	Manufacturer	5 Lawrence Street.
Hoseman,	Garmon, Aaron	47	Teamster,	18 Mass. Corp.
"	Farnham, G. W.	36	W'ks Gas Co.	154 School Street.
"	Hoyt, C. B. F.	38	W'ks Gas Co.	45 Hanover Street.
«;	Powers, John H.	32	Laborer,	53 Market Street.
"	Walton, A. C.	34	Manufacturer	48 Mass. Corp.
4 ¢	McDermott, M.	27	Machinist,	50 Middlesex St.
"	Hanson, John S.	34	Teamster,	11 Franklin Court.
((Charlwood, H.	21	Machinist,	33 Willie Street.

Apparatus and Property owned by the City, in care of this Company.

Hose carriage built by Hunneman & Co., of Boston, in 1853, carrying 750 feet of hose; 1800 feet leading hose; 4 reducing couplings; 1 two-way chuck; 2 lanterns; 20 chairs; 2 stoves; 2 mirrors; 1 settee; 2 brooms; 1 watering pot; 1 copper boiler; 1 carriage jack; 2 shovels; 1 duster; 2 pails; 2 wash dishes; 1 hand brush.

MECHANICS' HOSE COMPANY, No. 2. 12 Members. House on Cross Street.

	Name.	Age.	Occupation.	Residence.
Foreman,	Dudley, W. S.	40	Carpenter,	7 Franklin Court.
Ass't do.,	Anthony, G. F.	29	Carpenter,	32 Tremont Corp.
Clerk,	Holt, A. P.	30	Carpenter,	206 Merrimack St.
Steward,	Osgood, F. W.	22	Machinist,	36 Franklin Street.
Hoseman,	Blackington, D.	39	Blacksmith,	2 Franklin Court.
"	Griffin, A. M.	36	Sash Maker,	52 Rock Street.
"	Smith, William	32	Machinist,	Cross Street.
"	Pierce, J. A.	22	Sash & Blind,	Rock Street.
<i>"</i>	Adams, I. O.	22	Sash & Blind,	18 Franklin Court.
"	Pierce, F. W.	21	Machinist,	16 Lagrange Street.
"	Mackay, Chas.	21	Machinist,	Franklin Street.
"	Hardy, C. E.	29	Door Maker,	22 Franklin Court.

Apparatus and Property owned by the City, in care of this Company.

Hose carriage, built by Juckett & Freeman, of Boston, in 1869, carrying 900 feet of hose; 2000 feet 2½-inch leading hose; 1 reducer; 1 spreading nozzle; 50 feet ½-inch rubber hose, and pipe; 1 jack; 2 settees; 6 common chairs; 12 cane-seated chairs; 1 mirror; 1 axe; 2 ladders; 1 two-way chuck; 2 stoves; 12 hat-fronts.

EXCELSIOR HOSE COMPANY, No. 3. 12 Members. House on Central Street.

	Name.	Age.	Occupation.	Residence.
Foreman,	Hill, James E.	32	Carpenter,	14 Charles Street.
Ass't do.,	Norton, Jas. F.	32	Gas Fitter,	Rear of hose house.
Clerk,	Day, Charles J.	22	Tinsmith,	15 Auburn Street.
Steward,	Duffy, John	24	Machinist,	48 W. Union St.
Hoseman,	Mack, Joseph	23	Clerk,	18 Charles Street.
"	Hill, Joseph	23	Carpenter,	Rear of hose house.
"	Armstrong, Jas.	29	Trader,	12 Bow Street.
"	Garity, T. R.	30	Plumber,	111 Central Street.
"	Robinson, Wm.	22	Plumber,	115 Central Street.
66	Kerwin, E. D.	23	Gas Fitter,	115 Gorham Street.
"	Moore, R. M.	22	Brass Moul'r,	111 Central Street.
"	Ford, John T.	21	Clerk,	12 Church Street.

Apparatus and Property owned by the City, in care of this Company.

Hose carriage built by Juckett & Freeman, of Boston, 1869, carrying 900 feet hose; 100 feet $2\frac{1}{4}$ -inch hose; 500 feet $2\frac{1}{2}$ -inch hose; 4 reducers; 1 crow bar; 2 axes; 1 5-inch by $2\frac{1}{4}$ -inch reducer; 1 long wrench; 1 2-horse carriage pole; 1 headstall and breastplate; 3 hand lanterns; 1 carriage jack; 25 feet $\frac{3}{4}$ -inch rubber hose; spanners, belts and straps; 1 two-way chuck; 1 copper boiler; 2 stoves; 21 chairs; 2 settees; 1 mirror; 1 pair steps; 1 sprinkling pot; 1 monkey wrench; 6 hat-fronts; 1 table.

MAZEPPA HOSE COMPANY, No. 4. 12 Members! House on Favette Street.

	Name.	Age.	Occupation.	Residence.
Foreman,	Hosmer, E. S.	34	Butcher,	2 Livermore Street.
Ass't do.,	King, William	29	Shoemaker,	16 Fayette Street.
Clerk,	Clark, Wm. W.	28	Beltmaker,	40 Stackpole St.
Steward,	Halstead, W. H.	27	Wool Sorter,	High St. Square.
Hoseman,	Hussey, Geo. R.	41	Moulder,	21 Stackpole St.
"	Meredith, E.	31	Painter,	14 Fayette Street.
"	Dolan, J.	30	Painter,	15 High Street.
"	Harrington, J.	23	Manufacturer	2 Fayette Street.
"	Morse, Charles	26	Finisher,	Davidson Street.
66	Quinlan, J.	21	Machinist,	6 Fayette Street.
"	Whiteside, E.	23	Dyer,	Lawrence Street.
"	Halstead, J. W.	23	Presser,	25 High Street.

Apparatus and Property owned by the City, in care of this Company.

Hose carriage (new) built by J. J. Wright & Co., of this city, carrying 900 feet hose; weight (unloaded) 1550 lbs.; 1900 feet of hose; 25 feet rubber hose, and pipe; 1 two-way chuck; 1 bar; 2 axes; 2 pipes; 23 chairs; 2 stoves; 5 lanterns; 1 shovel; 1 table; 1 settee; 1 flag.

FRANKLIN HOOK AND LADDER COMPANY, No. 1.

29 Members. House on Middle Street.

	Name.	Age.	Occupation.	Residence.
Foreman,	Hall, H. N.	43	Moulder,	Elliott Street.
Ass't do.,	Doe, Wm. R.	51	Carpenter,	166 Merrim'k Corp.
Clerk,	Welch, C. A.	47	Manufacturer	70 Merrim'k Corp.
Driver,	Lewis, W. H.	27	Driver H.&L.	71 Middle Street.
	Adams, W. H.	47	Machinist,	21 Mass. Corp.
	Clark, Ezra	45	Manufacturer	36 Merrim'k Corp.
·	Clough, H. H.	40	Manufacturer	39 Merrim'k Corp.
	Briggs, Ansel	33	Manufacturer	73 Merrim'k Corp.
	Bishop, Nathan	34	Manufacturer	73 Boott Corp.
	Downs, H. B.	36	Carpenter,	47 Hamilton Corp.
	Daggett, H. C.	48	Carpenter,	32 Mass. Corp.
	Eastman, C. J.	29	Painter,	32 Stackpole St.
	Fuller, F. E.	23	Carpenter,	21 Mass. Corp.
	Hubbard, C. F.	45	Carpenter,	14 Lowell Corp.
	Healey, J. C.	42	Carpenter,	173 Merrim'k Corp.
	Ingalls, Wm. W.	48	Carpenter,	18 Lawrence Corp.
	Joyce, J. H.	30	Moulder,	119 Central Street.
	Lovejoy, Edwin	42	Grocer,	17 Andover Street
	McCoy, John	36	Moulder,	75 Mechanic Street
	Norman, Rufus	46	Carpenter,	165 Merrim'k Corp
	Pearsons, J. P.	33	Weaver,	124 Central Street.
	Pullen, J. A.	43	Machinist,	161 Merrim'k Corp
	Palmer, Albert	53	Machinist,	36 Essex Street.
	Pickman, David	48	Machinist,	9 Water Street.
	Roberts, Wm.	45	Teamster,	Centralville.
	Reed, C. A.	41	Manufacturer	38 Merrim'k Corp.
	Simmons, W. H.	43	Moulder,	119 Central Street.
	Tilton, H. N.	27	Moulder,	41 Chapel Street.
	Webber, S. F.	28	Blacksmith,	50 Hamilton Corp.

Apparatus and Property owned by the City, in care of this Company.

Two carriages carrying the following apparatus: 8 hooks; 12 props; 10 rakes; 8 pitch-forks; 4 sledges; 4 axes; 6 stakes; 4 guy ropes of 84 feet each; 200 feet street ropes; 16 ladders of the following lengths—2 roof ladders, 18 feet each; 1 roof ladder of 20 feet; 2 roof ladders of 25 feet each; 1 roof ladder of 28 feet; 1 ladder, 12 feet; 1 ladder of 24 feet; 4 ladders of 33 feet each; 2 butt ladders of 28 feet each; 2 tip ladders of 30 feet each. By joining the tips and butts together, they are enabled to raise ladders of 58 feet in length. 25 feet rubber hose, and pipe; 6 ladders; 350 feet chain; 10 chairs; 1 stove; 1 mirror.

FIRE APPARATUS AT STATIONARY POINTS,

TO BE USED BY VOLUNTEERS WHEN REQUIRED.

ROCKET ENGINE, No. 2.

House, Ayer's City.

Hunneman & Co. engine, owned by the city; diameter of cylinders, $5\frac{1}{2}$ inches; stroke of piston, 16 inches; 600 feet of leading hose; 26 feet suction hose.

FIRE KING ENGINE, No. 6.

KEPT AT THE POOR FARM.

Hunneman & Co., owned by the city; diameter of cylinders, $3\frac{1}{2}$ inches; 12-inch stroke.

HOSE CARRIAGE.

Kept at House on Fourth Street, Centralville.

300 feet leading hose; 2 stoves; 28 settees; 4 chairs; 1 ladder.

FIRE-ALARM TELEGRAPH.

AUTOMATIC REPEATER WITH BATTERY.

OFFICE, STEAMER HOUSE, MIDDLE STREET.

Superintendent, Torrey E. Stratton.

Number	of	Miles Wire
"	"	Signal Boxes32
"	"	Large Gongs 2
		Small Gongs
		Strikers 5

The Small Gongs are in the houses of the several hose companies, and one in house of Chief Engineer.

The Large Gongs are in steamer houses on Middle and Middlesex Streets.

The Strikers are located as follows: Armory Building, Market Street; Court House, Chapel Hill; Franklin School-House, Middlesex Street; St. Mary's Church, Suffolk Street; High Street Church, East Merrimack Street. The wires also run into the jewelry Store of J. Raynes & Co., 43 Central Street, by whom the standard time is struck at 1 o'clock, P. M., each day.

One of the signal boxes has not yet been placed in position, its location being at the City Poor Farm.

FIRE ALARM—LOCATION OF SIGNAL BOXES.

- No. 3, Corner Broadway and Mt. Vernon Streets, Carey & Harris' Shop.
 - " 4, Dutton Street, on building opposite Parker & Cheney's.
 - " 5, Corner Rock and Fletcher Streets, Liberty Square.
 - " 6, Corner Little and Lewis Streets, Mann School-House.
 - " 7, Corner Market and Dutton Streets, Plunkett's store.
 - " 8, Corner Westford and School Streets, on pole.
 - " 12, Market Street, Police Station.
 - " 13, Corner Prescott and Merrimack Streets, Stevens' Block.
 - " 14, Cornér Fayette and Andover Streets, Brick Block.
 - " 15, Bleachery Street, Bleachery Stable.
 - " 16, Hosford Square, on pole.

No. 17, Corner Middlesex and Walker Streets, on pole.

- " 21, Corner Kirk and Merrimack Streets, Welles' Block.
- " 23, Corner Coburn and River Streets, on pole.
- " 24, South Street, Ward Room.
- " 25, Merrimack Street, Tremont House.
- " 26, Corner Fletcher and Pawtucket Streets, on pole,
- " 31, Corner High and East Merrimack Streets, on pole,
- " 32, Corner Bridge and Tenth Streets, on pole.
- " 34, Lincoln Street, Cook's Tannery.
- " 35, Corner Charles and Lawrence Streets, on pole.
- " 36, Corner Third and Myrtle Streets, on pole.
- " 41, Corner Wyman and Nesmith Streets, on pole.
- " 42, Middlesex Street, No. 2 Steamer House.
- " 43, Highland Street, Edson School-House.
- " 51, Junction Central, Gorham and Thorndike Streets, on pole.
- " 52, Corner Austin and Moody Streets, Fox's Stable.
- " 53, Central Street, First Universalist Church.
- " 61, Lawrence Street, above Stott's Mill, on pole.
- " 62, Corner Bowers and School Streets, on pole,
- " 63, Corner Hale and Howard Streets.
- " 64, (To be at Poor Farm, not yet put up.)

RECAPITULATION.

- 5 Engineers.
- 118 Firemen.
 - 2 Hand Engines.
 - 4 Steam Fire Engines.
 - 11 Hose Carriages.
 - 2 Hook and Ladder Carriages.
- 12,250 feet 2½-inch Leading Hose,
- 2,500 feet 21-inch Leading Hose.
 - 146 feet Suction Hose.
 - 7 Horses.
 - 2 Fuel Wagons.
 - 31 Hat-Fronts.
- 10 Double Harnesses; 2 Single Harnesses; 8 Hooks; 26 Ladders; 12 Props; 10 Rakes; 8 Pitchforks; 4 Sledges; 19 Axes; 200 feet Street Rope; 350 feet chain; 17 Reducing Couplings; 7 Spreading

Nozzles; 9 Beds and Bedding; 140 Chairs; 13 Settees; 10 Mirrors; 17 Stoves; 8 Tables; 3 Bureaus; 6 Blankets; 7 Two-way Chucks; 3 Copper Boilers; 4 Jack Screws; 2 Desks.

The above apparatus is owned by the City, and is in good working order. The several Companies are furnished with Spanners, Lanterns, Signal Lanterns, Belts, Axes, Crowbars, Shovels, and all necessary apparatus for the performance of their respective duties. There are 13 Fire Buckets at the Market House, and 8 at the City Government Building.

RESERVOIRS.

The City of Lowell has 16 Reservoirs where water can be procured in case of fire, situated as follows;

- 1 on Tyler, at the corner of George Street.
- 1 on Chestnut Street, at the corner of Willow Street.
- 1 on East Merrimack Street, at the corner of High Street.
- 1 on Salem Street, at the intersection of Willie Street.
- 1 on Cross Street, between Fletcher and Willie Streets.
- ${\bf 1}$ on Central Street, Hosford Square.
- 1 on Myrtle Street, at the head of Fifth Street, Centralville.
- 1 on Union Street, at the corner of Chapel Street.
- 1 on the corner of Westford and Grand Streets.
- 1 on Fourth Street, near Read Street.
- 1 on Chapel Street, at the corner of Keene Street.
- 1 on Varney Street, near Mt. Vernon Street.
- 1 on the corner of Queen Street and Branch Street.
- 1 on the corner of Wilder Street and Middlesex Street,
- 1 on the corner of Bridge Street and Seventh Street.
- 1 on Howard Street, at the corner of Hale Street.

WATER PIPE DEPARTMENT.

Property belonging to the Water Pipe Department.

About 1000 feet cast iron pipe, 6-inch; 17 yard hydrants; 25 shovels; 5 picks; 4 tamping mauls; 3 pails; 3 torch stands; 2 hoes; 2 wheelbarrows; 1 iron bar; 1 stove; 1 6-inch water gate, and wrench; 1 hydrant pattern; 1 two-way chuck pattern; 1 pump.

LENGTH OF WATER PIPE USED BY THE FIRE DEPARTMENT.

Number of	Feet	26,961
Number of	Hydrants	115

STOP-GATES.

There are 14 Stop-Gates: one 12-inch, on Central Street, opposite Warren Street; one 12-inch, on Broadway, near Adams; one 12-inch, on Middlesex Street; one 12-inch, corner Central and Jackson Streets; one 12-inch, at Tower's Corner; one 8-inch, at the corner of Merrimack and Bridge Streets; one 8-inch, on Cabot, near Merrimack; one 8-inch, on Adams, near Cabot; one 8-inch, on Adams, near Broadway; one 8-inch, on Western Avenue; one 8-inch, on Middlesex Street; one 6-inch, on Gorham, near Central Street; one 4-inch in Green School-house yard, on Merrimack Street, and one safety-valve on Dutton Street, at the head of Wamesit Court.

FIRES AND ALARMS FROM APRIL 1st, 1871, TO MARCH 31st, 1872.

REMARKS.	Friction. Chimmey. False alam. Spoularious combustion. Accidental. Gause unknown. """ """ """ """ """ """ """ """ """
INSURANCE.	\$4,000 None. 1,800 1,000 6,000 5,000 1,300 500 500
LOSS.	94,000 150 100 100 1,000 8,000 1,600 8,000 1,300
LOCATION.	Congress Street, River Street, Middlesex Street, Bailer House, Warren Street Courf, East Merrimack Street, 74, 75, 78 Merrimack Street, Tremont Corp. Yard, 410 Merrimack Street, Middle Street, Middle Street, Middle Street, Warrimack Street, W. Dutton Street, " Dutton Street, " Dutton Street, " Merrimack Street, " S
BOX.	\$488558548 85855
OWNER OR OCCUPANT.	Ripley & Co.'s Battg Mill, Steamer House, City, Company, Hamilton Print Works, M. McDonough, Neamith Heirs' building, M. Clark & others, stock, M. A. Wyman, building, D. A. Pike, M. A. Wyman, building, D. A. Pike, Mrs. S. A. Blood, Ruins of fire of 11th inst., Tremont Picker Honse, O. C. Lord, Mary McCusker, A. L. Brooks' Mill, A. L. Brooks' Mill, Mary McCusker, Stevens' Block, B. Kelly. Woods, Sherwood & Co., B. B. Pierce, Water Works, Stable, J. McCann, Stable, J. McCann, James Meadoweroft,
HOUR.	8.00 P.W. 1.30 P
DATE.	April I; 1871 May 2,7, ** May 2,7, ** June 9,9, ** May 9,9, ** May 9,9, ** May 9,9, ** New 19,9, ** Nov. 15,5, ** Nov

FIRES AND ALARMS—CONTINUED.

REMARKS.	Overheated chimney. Bedding near stove. Bedding near stove. Bed. Cause unknown. Second alarm given. " " " " " " " " " " " " " " " " " " "	
LOSS. INSURANCE.	\$1,050 28,500 400 1,000 5,000	\$59,700
LOSS.	Slight. Slight. Slight. 2,000 2,000 40,000 300 300 Slight. 300 Slight. 300 5,000 5,000 5,000 5,000 5,000 5,000 5,000	\$81,100
LOCATION.	Congress Street, 1Hurd Street, Winter Linden " Middlesex Street, Thorndike " Yorth " Walke " Highland Street, Farn Dry House, Prescott " Forness " Fayette Street, Corferson " Corferson " Corferson " Corferson " Cor Gorham & Charles, Cort Gorham & Charles,	
BOX.	2888 4288.00	
OWNER OR OCCUPANT.	1.00 A. M. 1.00 A. M. 1.33 P. M. 1.34 P. M. 1.35 M. 1.36 M. 1.37 M. 1.38 M. 1.39 M. 1.30 M	
ноив.	11.00 P. M. 11.00 P. M. 12.00	
DATE.	Feb. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	



SECOND ANNUAL REPORT

OF THE

WATER COMMISSIONERS

OF THE

CITY OF LOWELL,

TO THE JOINT STANDING COMMITTEE OF THE CITY COUNCIL ON WATER WORKS,

Made January 23rd, 1872.

PRINTED BY ORDER OF THE CITY COUNCIL.



LOWELL, MASS.:

MARDEN & ROWELL, PRINTERS, MUSEUM BUILDING, MERRIMACK STREET.

1872.

THE Joint Standing Committee on Water Works herewith submit the Second Annual Report of the Water Commissioners, and recommend that one thousand copies be printed in document form for distribution.

J. G. PEABODY, Chairman. H. P. PERKINS. A. G. CUMNOCK. CRAWFORD BURNHAM.

In Board of Aldermen, Jan. 23, 1872.

N. C. SANBORN.

Read and sent down.

SAMUEL A. MCPHETRES, City Clerk.

In Common Council, Jan. 23, 1872.

GEORGE GARDNER, Clerk.

Received and read.

ORGANIZATION.

JOINT STANDING COMMITTEE OF THE CITY COUNCIL ON WATER WORKS.

JOSIAH G. PEABODY, Mayor.

ALEXANDER G. CUMNOCK, Alder. HENRY P. PERKINS, Pres. C. C. NATHANIEL C. SANBORN, C. C. CRAWFORD BURNHAM, C. C.

BOARD OF WATER COMMISSIONERS.

LEVI SPRAGUE, Chairman. WM. E. LIVINGSTON,

SAMUEL K. HUTCHINSON, JOSEPH S. HOLT, Clerk.

CONSULTING ENGINEER.

JAMES P. KIRKWOOD, Brooklyn, N. Y.

ENGINEERS.

JOSEPH P. DAVIS, Chief.

GEORGE E. EVANS, Assistant,
DAVID W. CUNNINGHAM, Assistant,
C. W. DRAKE,
C. H. M. BLAKE,

GEO. S. RICE.



REPORT.

WATER COMMISSIONERS' OFFICE, Lowell, January 1, 1872.

To the Joint Standing Committee on Water Works.

Gentlemen: We have the honor to submit our second annual report.

It is now nearly two years since we received our certificates of election as members of the Water Commission, and we trust that the amount and character of the work which has in the meantime been done under our direction will bear favorable testimony to the faithfulness and the diligence with which we have performed the duties entrusted to us.

In our first annual report a detailed statement was given of the work done during the first year of our labors.

It will be remembered that at the time of our election, a plan of works known as the Beaver Brook plan had been accepted by the City Council, but by resolution of that body we were afterwards required to make surveys, plans, and estimates for various schemes contemplating other sources of supply.

On July 9th, 1870, various plans were reported upon, and during the same month one of these, with some modifications recommended by the Joint Standing Committee upon Water Works, was adopted by

the City Government. This plan was further modified in December by the substitution of a filtering gallery for settling basins.

The following report of our Engineer will explain the reason for this change, and the purpose which the gallery is intended to serve:

REPORT.

LOWELL, Dec. 12th, 1870.

To the Lowell Water Commissioners.

Gentlemen: In obedience to your instructions of October 25th, I have made the investigation therein directed, and now beg leave to submit the following statement:

Commencing at a point about 800 feet above the Pawtucket Dam on the Dracut side, a narrow tract of interval land varying in width from three hundred to three thousand feet extends up the river about three miles and forms its northern bank. Borings which have been made at three points in this tract show it to be underlaid by a stratum of mixed gravel and sand, the top surface of which is eight feet below the top of the masonry of the Pawtucket Dam, or at an elevation of 24 feet above datum.

This material is very well suited for the filtration of water, but above it, and extending to the surface of the plain, is a layer of sandy loam and river silt, from 16 to 18 feet in thickness, which, while it is somewhat pervious, does not yield readily the water it contains.

The gravel bed being situated below the low stage of the river, and being composed of a coarse material which water readily enters and flows through, a supply limited only by the extent of gallery that should be built might be obtained from it, provided it had free communication with the river.

An examination of the river bank on this side shows its face to be silted up with a fine sand which forms an almost impervious layer some two or three feet in thickness.

To ascertain how much of the river bottom is covered with this silt, soundings have been made along some two miles of its length. Opposite the lower end of the plain, these soundings would indicate that a portion of the gravel bed where it extends under the river is free from this silt, and has open communication with the water; but higher up no such communication was discovered.

The low position of the gravel bed compared with the elevation at which it will be proper to build a gallery, and the silt formed upon the river bank and bottom, are conditions unfavorable for obtaining a large and continuous supply of water by the use of natural filters.

To determine the quality of the water that would be yielded, and that some idea might be formed of the quantity that could be obtained from a given length of gallery, a well twelve feet in diameter has been sunk to a point 17 feet below the surface of the ground and one or two feet into the gravel, thus securing a free ingress for the water.

Experiments made on various days to determine the yield per square foot of bottom area, under different heads or with various differences of level between the water in the river and that in the well, gave very uniform results, and show it to be larger than had been anticipated from the previous examinations. The average of the results of these experiments is as shown by the following table:

Height of water in River.	Height of water in Well.	Difference.	Yield per sq. ft. of bottom area in 24 hours.	Tempera- ture River.	Tempera- ture Well.
33.80 feet.	27.30 feet.	6½ feet.	480 galls.	38°	49°
33.80 "	27.80 "	6 "	430 "	- 6	44
33.81 "	28.81 "	5 **	375 "	,,	- 66
33.82 "	29.82 "	4 "	290 "	۷۰	"
33.72 "	30.72 "	3 "	235 ''	44	44
33.63 "	31.63 "	2 "	161 "		
33.50 "	32.50 "	1 "	107 "		44
33.40 "	32.90 "	01/2 "	64 ''	ic	"

With a head of six feet the water entered the well in bubbling springs and moved the fine material forming it into crater-like mounds; with less head than six feet no such action was noticed. On account of the short time the pump has been in operation, it is not to be supposed that the ground about the well has been sufficiently exhausted to permit of a direct draft upon the river; and if this be true, much the larger part of the water obtained in the above tests must have been that held in store by the gravel bed.

This view is partially confirmed by the notable difference in temperature between the river and well waters; by the greater hardness (amounting to about 50 per cent.) of the latter as compared with the former, and by the fact that when the well was allowed to fill, the water rose steadily to a height of more than four inches above the river surface.

Water drawn under this condition would flow in from all sides, and as the perimeter of the well compared with the contained area would be much greater than the perimeter of a long narrow gallery, compared with its contained area, it will not be safe to calculate upon a yield per square foot of gallery of more than one half that given by the well. The gravel bed serves as a great subterranean reservoir which holds in store the surplus drainage of the plain above and the hills and valleys immediately surrounding it, and even if it has only a partial communication with the river a large supply of water can be drawn from it during times of freshet.

The water thus obtained is pure and soft, and in every way well suited for manufacturing and domestic use, as will appear by reference to the appended report of Mr. Burbank. The turbidness noticed by him in the sample sent was due to the action of the pump, which rests upon the bottom of the well, and when in action disturbs the sand.

For purposes of an estimate I have assumed that a yield in twenty-four hours of 200 gallons per square foot of bottom area may be relied upon during such time as it would be necessary to derive the entire daily supply from the gallery. This is about the average yield of the various European filters. If the gallery be made 8 feet wide it would furnish, under the above assumption, 1600 gallons per linear foot of length, and a total length of 1600 feet would be required for a supply of 2,500,000 gallons in 24 hours.

This length has been used in the estimate made to compare the cost of this plan of works with that of the settling basin scheme. The total cost of the former is estimated at \$1,265,000, and the estimate of the latter, as given in a report made July 12th, is \$1,275,914; showing a difference of \$10,914 in favor of the natural filter plan. There is a difference of about 12 feet in the levels at which the water would be furnished to the pumps in the two plans, and this would make a difference of about \$750 in the value of the coal used in a year, when the daily demand is 2,500,000 gallons. This saving is in favor of the gallery plan, as is also the difference of yearly cost of maintenance, which would probably amount to at least \$1,000.

If a gallery be used as a substitute for settling basins and artificial filters to obtain pure water during times of freshet, there appears to be no reason why it should not give satisfactory results; but as it will not be advisable on account of cost to build a sufficient length of gallery to furnish a full supply during extreme low stages of water, a pipe should be extended into the river, that the deficiency may be made good by direct draft upon the river water, which at such times is clear and acceptable.

As the gallery scheme is somewhat the cheapest in first cost and yearly maintenance, and as the water it will furnish will be more acceptable on account of its entire freedom from matter in suspension, I would recommend its adoption in place of the settling basin scheme.

Respectfully submitted,

JOSEPH P. DAVIS,

Chief Engineer.

To forward matters as much as possible, a contract for about 1,500 tons of cast-iron pipe, which would be required, whatever scheme of works was carried out, was entered into during the previous July, and a contract for laying the same was executed in August.

On September 23d the first pipes were received, and on October 10th the work for laying them was commenced.

It will be seen that from causes beyond our control the commencement of our proper work was delayed until the fall of 1870, when the working season for that year had nearly closed.

Previous to January, 1871, the following contracts had been made:

July 12th, for 1,475 tons of cast-iron pipe and 25 tons of special castings.

August 17th, for laying pipes in Wards 1, 2, 3, 4, and 5.

September 12th, for the building of the Distributing Reservoir.

September 13th, for building Brick Supply Conduit.

The contracts that have been awarded during the past year, with their dates and estimated values, are as follows:

January 27th, 1871, a contract was entered into with Jesse W. Starr & Sons for 2,664 tons of castiron pipes and 160 tons of special castings. Amount, \$164,658.40.

On the 3rd day of April a contract was made with Robert Park for building Filtering Gallery, Gate-Chamber and River Connection. Amount, \$144,-200.00.

On the 8th day of April, a contract was made with George H. Norman for laying pipes in Wards 2 and 6. Amount, \$27,046.00.

On the 8th day of April, a contract was made with George H. Norman for laying Pipe Conduit, Force Main and Distributing Main, including Beaver Brook and Merrimack River Crossings. Amount, \$88,644.00.

On April 6th, a contract amounting to \$22,000.00 was made with George H. Norman for lowering the grade of the supply conduit two feet. The reasons for the change that led to this contract are given below.

August 1, 1871, a contract was made with L. J. Richards for \$673, to move the house purchased of William Dobbins, to build a cellar under the same, and to do the grading, etc.

August 12th, a contract was made with Carlton & Simpson for furnishing building stone for the Engine House foundation at \$3 per cubic perch.

August 18th, an agreement was made with Runels & Davis for furnishing the cut stone for engine foundation for the sum of \$470.

In October an agreement was made with L. J. Richards for moving house at Reservoir. Amount, \$75.50.

September 24th, an agreement was made with S. Dockham & Co. for building a cellar under the house on the Reservoir grounds, for \$300.

In December a contract was advertised for furnishing 300 tons of cast-iron pipes and 15 tons of special castings.

The following are the more important orders for supplies and materials that have been given during the year:

To the Lowell Machine Shop, for ninety-one 6-inch, seventeen 8-inch, and thirteen 12-inch stopcocks. Amount, \$4,200.

To the Boston Machine Co., for three 30-inch, two 24-inch, five 16-inch, one 6-inch stop-cocks, and 150 hydrants. Amount, \$10,139.

To the Chelmsford Foundry Co., for 225 castiron frames and covers at 3\frac{3}{5} cents per lb. Amount, \\$1,310.34.

To Wm. E. Livingston, for cement and sand, and teaming brick for engine foundation, \$3,903.03.

To Phillip Sargent, for 308 M brick at \$10.60, including freight. Amount, \$3,264.80.

Contracts for engine buildings, gate houses, fences for Reservoir and other grounds, and cast-iron sluice-gates, remain to be let. Their estimated amount is \$87,000

The preliminary estimate of the cost of the entire work as given in the report of December 12th, 1870, is \$1,265,000. Much the greater portion of the work now being under contract, we have been enabled to test its correctness, and can confidently assert that it will not be exceeded.

LAND.

Nearly all the land that will be required for our purposes has been taken. We have been able to settle with but a portion of the proprietors, although we have made to almost all of them offers of what we considered liberal compensation for the damage they have sustained.

The law under which the land is taken, is such that, after failing to negotiate with the proprietors, the Commissioners have no further power in the matter, as the proprietors can choose their own time for making their claims.

Land has been taken from the following named parties either by seizure or by purchase:

Filtering Gallery.—Samuel Fay, Daniel Saunders, Jr., Abel Coburn, Robert Park, Proprietors Locks & Canals, Joshua B. Morse.

Supply Conduit.—Joshua B. Morse, Patrick Cummiskey, Eliza D. Blood, Henry Emery.

Reservoir.—E. S. Davis, Anson Lamere, Holden & Warren, Sam'l N. Wood, Eleanor Goding, Levi Sprague, Henry F. Durant, B. Kavanah, Jason Goodhue.

Pipe Conduit.—Proprietors Locks & Canals, Nelson Cox, Fisher A. Hildreth, Henry Reed, Charles Kenny, John Pitts Estate, John and Abel Richardson, Henry Richardson's heirs, Mary Murtagh.

Engine House.—William Dobbins, E. P. Woods, Henry F. Durant, Robert Gilchrest.

Settlement has been made with the following named parties for land and damage:

E. S. Davis\$	600.00
Anson Lamere	700.00
Daniel Saunders	600.00
William Dobbins	4,500.00
Holden & Warren	350.35
Sam'l N. Wood	614.63
Eleanor Goding	593.82
E. P. Woods	174.80

Levi Sprague	38.46
Patrick Cummiskey	1,050.00
Jason Goodhue	2,397.25
John P. White	400.00
_	
Total	12.019.31

April 3rd, Mr. David W. Cunningham was appointed assistant Engineer in charge of the Filtering Gallery and brick Supply Conduit. April 10th, Mr. C. H. M. Blake was appointed leveller. On the same day, Mr. Alfred Gilman, Clerk of this board, was discharged from further service. April 17th, Mr. Joseph S. Holt was elected Clerk of the board in place of Mr. Gilman.

April 20th, the Joint Standing Committee on Water Works met at the office of the Commissioners in pursuance of an order of the City Council requiring them to make an investigation into the management of the works. This investigation was continued until the second day of May, and resulted in the complete exoneration of the Commissioners from the charges which were brought against them.

July 1st, Mr. F. H. Spaulding was appointed Inspector at the Reservoir. He had previously been acting as assistant in one of the engineering parties. August 1st Mr. H. D. Chapin was appointed rod-man; and on the same day Mr. Herbert Marshall was appointed Inspector on the Supply Conduit and Filtering Gallery, in place of Mr. B. F. Barnard, who had been transferred to the Engine Foundation.

September 26th, Mr. H. H. Wilder resigned his position as Commissioner on account of the pressure of private business, and on the same day Mr. Cyrus

H. Latham was elected by the City Council to fill the vacancy. After due consideration Mr. Latham declined to serve, and on October 11th Mr. Samuel K. Hutchinson was elected to the position.

December 1st, the salary of the Chief Engineer was reduced to \$2,500 per year, as from that date, owing to other engagements, he was able to give but a portion of his time to these works. December 12th, Mr. G. S. Rice resigned his position on the Engineer corps.

PROGRESS AND CONDITION OF THE WORK.

FILTERING GALLERY.

The excavation for the filtering gallery was commenced April 12th, 1871, and the first stone of the rubble masonry of the side walls was laid May 23rd.

On October 1st, the last sheet pile for sustaining the sides of the excavation was driven, and on November 1st the brick masonry of the covering arch was completed.

November 17th, a freshet occurred which raised the river to elevation 38, and overflowed a portion of the grounds occupied by the work. Had this freshet happened a month earlier, it would have filled the then uncovered gallery with water and silt, and have caused much damage.

On account of an unprecedented low stage of the river for a long period, the dryness of the land springs, and the freedom from rains either moderate or violent, which have rendered precautions against washings and overflows almost unnecessary, reduced the amount of water pumped very materially, and allowed the work to be prosecuted a quite unusual number of days for one season. The past year may be considered a remarkably favorable one for the execution of this class of work; and we are happy to state that Mr. Park has taken advantage of the opportunity thus afforded him to forward its construction.

The rate of progress has averaged 217 linear feet per month.

On the 30th of November the pump was removed and the gallery allowed to fill with water.

Two brooks, which, during the rainy season, flow considerable volumes of water, are conveyed to the river over the top of the gallery. During construction their channels were diverted, but they now pass through new and more direct channels which have been carefully puddled for a sufficient distance on either side to prevent the water from breaking through into the gallery.

Near where the smaller brook crosses an 8-inch pipe has been built into the arch at the spring line, that the waters of this brook, which are very pure and clear, may be admitted if thought desirable at any future time.

A surface filter can easily and cheaply be built at this point, which would ensure the perfect limpidity of the water at all times.

GATE-CHAMBER.

On May 15th the excavation for the Gate-Chamber was commenced, and on September 15th the masonry was completed. All the back filling required

by the contract was finished during the past month.

The masonry of this structure and of the Gallery is the best of its class, and much credit is due Mr. Park for the faithfulness and thoroughness with which he has executed this and all the work embraced in his contract.

The Gate-Chamber is arranged to command the delivery of the water either from the Gallery or the River, and forms the junction of the Gallery, River Connection and Supply Conduit. It is to be furnished with self-acting gates which will open or close in accordance with the requirements of the Engine; and is to be provided with screens to prevent the entry of fish or floating substances, either into the Conduit or Gallery. It will be covered with a brick gatehouse, from the floor of which hand-gates may be operated to shut off the water for a season from either source of supply.

INLET PIPE OR RIVER CONNECTION.

A 30-inch pipe about 220 feet long leads from the river to the gate-chamber, and forms what is here termed the River Connection. This pipe projects into the river about 45 feet, and at its end is supported upon a grillage and well driven piles, the whole being thoroughly strapped together with iron straps in such manner that the pipe cannot be moved from its place without tearing up or breaking off the piles. The material into which the piles are driven is protected from washing by the current, by a guard of closely driven sheet-piling 6 inches thick. The end of the pipe is provided with a wooden frame, arranged for

receiving either a grating to prevent the entry of the larger floating bodies, or a gate to shut off the water in case access to the interior of the pipe or repairs upon the stop-cock are required. The river end of the pipe was laid by means of a coffer dam, formed with two rows of 6-inch tongued and grooved sheet-piling driven about 6 feet apart and filled in between with puddled earth.

The work of laying this inlet pipe was finished during the past month.

SUPPLY CONDUIT.

At the time the contract for building the supply conduit was let, the section, line, and grade of the conduit had been arranged to meet the requirements of settling basins. The change of plan from settling basins to filtering gallery rendered a change of line necessary, and a change of section and grade desirable; it also involved the abandonment of a certain portion of the work already built.

The price asked by the contractor for these changes was deemed unreasonable, and it was decided that unless he could be induced to lower his price, that no change would be made in section or grade.

Work was stopped upon the brick masonry at an early day in the season, and the matter of lowering the grade was kept under discussion until March or April of 1871, when the contractor offered to make the desired change for the sum of \$22,000.

This amount was somewhat in excess of the Engineer's estimate for the work involved, but as it was not greatly so, and as it appeared to be the low-

est offer which we were likely to obtain, and as the changes were considered very desirable to be made by both our Consulting and Chief Engineers, we decided April 14th to accept the above mentioned terms. We did not, however, determine upon this action until we were assured that an equal sum could be saved at other points without injury to the work or the supply. As the lowering of the conduit would increase the supply to be derived from each linear foot of Gallery, by permitting the water to be drawn under a greater head, we were enabled to effect this saving by decreasing the length of the gallery to 1,300 feet, the contract length being 1,600 feet.

The section of the Conduit has been changed from its original figure and dimensions to a circle of 4 feet 3 inches, inside diameter, and the grade has been lowered two feet.

Work upon the tunnel heading at the west end was fairly started a few days before the beginning of this year, but night gangs were not employed till March 6th, since which time this work has been urged forward night and day.

February 20th, shaft No. 1 reached grade, and headings were started east and west. There has been some delay at this point on account of want of capacity of the first pump used to clear the work of water, and of failure of other pumps and machinery afterwards provided. Of late the work has progressed satisfactorily.

July 21st a heading was started at the east end of the tunnel, from an excavation sunk to receive the terminal chamber. This heading was at first entirely in earth, and the sides and top required to be sustained by close and strong sheeting. At some points the earth at the progressing end of the heading was so loose as to necessitate the use of a movable shield to prevent it from running in and filling up the tunnel. Boulders were here and there encountered, which required blasting to allow room for placing the sheeting.

The greater portion of the distance traversed by this heading has been partly in earth of a hard, compact nature, and partly in rock—the rock extending from the floor of the tunnel to about half its height. Fortunately no quicks and has been found in the way, though had it been (unless it had proved to be of an unusually treacherous character) it is probable it would have been penetrated in safety, so skillful and efficient are the men employed on this portion of the work.

On September 6th, a new shaft 10 feet by 12 was commenced on the land of Isaac Holden.

October 25th, shaft No. 3, 60 feet by 10, was commenced on the land of the Bodwell heirs, close to the line of the "Navy-yard road."

November 28th, the heading from the west end, and that from shaft No. 1 met, and showed an exact coincidence of lines and grades.

December 6th, shaft No. 2 was brought to grade, and east and west headings started from it.

The following table will show the monthly progress upon the tunnel since its commencement:

December, 1870, 11 feet.

January, 1871, 27.5 feet.

February, 1871, 100.5 feet, including 50 feet shaft No. 1.

March, 1871, 141.0 feet.

April, 1871, 128.0 feet.

May, 1871, 101.9 feet.

June, 1871, 69.9 feet, force principally employed in lowering grade.

July, 1871, 105.0 feet.

August, 1871, 131.2 feet.

September, 1871, 124.7 feet.

October, 1871, 120.2 feet.

November, 1871, 128.6 feet.

December, 1871, 73.5 feet.

To January 1, 1872, 1,263 feet of heading have been driven, including the length occupied by the shafts. There remains to be done 527 linear feet of tunnel, which, at the average rate of progress of the last year, will be completed as early as June.

The rock for a great portion of the distance has proved of unusual hardness, being of a flinty character, and freely emitting sparks under the blows of the hammer.

The work now remaining to be done is being worked from four headings, by a force of about 92 men, and there is every reason to believe that the rate of progress will be greater than at any time before.

On April 21st excavation in the open cut for the conduit was resumed, and on May 11th the brickwork upon the new grade was commenced and has been continued with a few interruptions throughout the season.

The connection with the gate-chamber was made early in November, and about 400 feet eastward from that point had been laid; while about 1,300 feet extending from the tunnel westward was completed.

Between these two points for a distance of about 600 feet the excavation is partly in rock, and the progress has of necessity been quite slow through this portion of the line.

The length of conduit exclusive of tunnel is about 2,380 feet, of which 1,990 feet are finished, with the exception of a portion of the back-filling, and clearing of rubbish and dirt.

PIPE CONDUIT.

The pipe-conduit extends from the terminal chamber at the end of the brick conduit to the engine-house, a distance of 6,646 feet, and consists of a 30-inch cast-iron pipe, laid at varying depths beneath the surface. It embraces the Beaver Brook crossing, which is an inverted syphon laid beneath the bed of the stream.

The excavation upon this part of the work was commenced May 13th, 1871, and the pipe-laying soon after. Both were continued till July 14th, when the pipe-layers were transferred to the street work, and the excavators to the brick conduit. During this time 3,500 linear feet of trench were excavated to grade, and 1,400 linear feet were partly excavated. Also 3,391 linear feet of pipe were laid.

Work was resumed November 7th, and since that time 1,100 linear feet of trench have been excavated, and 1,677 feet of pipe have been laid, making the total amount of pipe conduit laid to date 5,068 linear feet.

The back-filling over this pipe is nearly finished. No work has yet been done on the Brook crossing, but it will be commenced in the Spring. A portion of the line passes through ledge, which it is proposed to exeavate this winter. The masonry for the culvert required to pass Pitts brook under the pipe is being laid.

By the terms of the contract this work should have been completed August 15th, but all the pipes are not yet received.

PUMP-WELL, ENGINE FOUNDATION, ETC.

On July 11th, 1871, the City Council, by resolution, authorized us to build the pump-well, engine foundation, and foundation for engine buildings by days' labor.

We have not been able from various eauses to make the progress upon this work that we had anticipated.

The data needed to determine the definite plans for the engine foundation were not received as early as wished, and we were thus prevented from entering upon the work at once. Not having had funds at our command to pay such men as it was found desirable to discharge for inefficiency or other cause, we have not been able to keep at all times such a force at work as would ensure the most rapid progress. But the greatest source of delay was the character of the material in the lower part of the excavation.

This material is an exceedingly fine sand—almost impalpable—which, before it is disturbed, looks somewhat like a bluish elay, but which when moved by working upon it, turns to a quag. The lower part of the exeavation was hoisted out by derricks, and as it

'was exceedingly difficult to shovel, and as the banks slowly undermined and fell in, the progress was necessarily very slow. The work of clearing the grounds of fences and trees commenced August 3rd, and the laying of a cement sewer-pipe through Bow street began upon the following day. This pipe served to carry off the water from the excavation, and avoided the necessity of pumping during the progress of the work. Its main purpose, however, is to act as a drain to the engine-house cellar, and to conduct away the overflow from the pump-well. Its length is 693 feet, and it enters a small brook at Coburn street.

The excavation for the foundation was begun August 15th. Mason work started September 25th.

The arched pocket, the pump-well, and pump-pits, as also a portion of the engine-house foundation walls, are built from a timber foundation 45 feet 4 inches by 54 feet 8 inches in dimensions, and composed of two layers, laid cross-wise, of 8-inch square spruce timber, covered by $1\frac{1}{2}$ -inch pine planking — the object of the planking being to secure a water-tight bottom to the wells.

It became necessary to support a portion of the engine foundation upon piles, on account of the yielding nature of the ground, and consequently 82 piles have been driven about $2\frac{1}{4}$ feet from centre to centre, and to a depth of about 20 feet.

The foundation for the buildings are completed with the exception of a little dry rubble, required for the boiler-house, and the foundations for the engines are well advanced, requiring but two or three weeks more of labor.

The foundation for the chimney has not yet been touched.

Work is now stopped on account of the severity of the weather.

ENGINE.

The work upon the engine is not in so advanced a state as we had hoped to have it at this date, but the contractor has agreed to push its construction as fast as possible, and assures us that he will have it completed within the time specified in the contract.

ENGINE BUILDINGS.

No work has yet been done upon the engine buildings; in fact the plans are not definitely determined upon.

It is not intended to commence the construction of the engine house itself until the erection of the engine is completed, as both operations cannot conveniently be carried on together.

FORCE MAIN.

The contract for casting the pipes for the force main has been advertised within the past month. By the terms of this contract the pipes are to be delivered in Lowell by the 15th of April, and the work of laying them will commence immediately thereafter.

The main is 24 inches in diameter and about 2,600 feet long; not more than 3 or 4 weeks will be required for its laying.

RESERVOIR.

Work upon the reservoir was resumed for this season March 13th, with a small force engaged in laying the drain pipe. Early in April, as soon as the frost would permit, work upon the embankments was commenced, and was continued till the middle of August, when, except at two points where drive-ways were left open, they had been brought up to within 1 1-2 feet of their intended height.

About four-fifths of the bottom has been exeavated to grade, and on the remaining portion there are but 2 to 3 feet of material to be taken out.

. The outer slope of the southeast embankment has been eovered with soil, and sown with winter rye. A small portion of the surrounding ground has been graded and covered with soil, and a drive-way 25 feet wide laid out through it. This drive-way is to be extended entirely around the reservoir, and is to be connected with Beacon, Llewellyn and Christian streets.

The eentre of Beaeon street has been raised and graded for a distance of about 500 feet from Sixth street northerly.

The puddle work commenced in early summer, and about two-thirds of the inside slopes are now covered. Nothing has been done towards puddling the bottom. About one-third of the puddled slopes have been covered with dry stone paving, of which 1250 cubic yards have been laid, including the border at the base.

This portion of the work is not so far advanced as it should be, but it will be continued during the

winter at such times as the weather will permit.

About 1,900 cubic yards of stone have been broken and deposited on the slopes to form a backing to the paving. Work upon the masonry of the gate-chamber was not commenced till October on account of delay in the delivery of the cut-stones required for it.

It is now about one-third built, and will require but a few weeks of work in the spring for its completion.

The reservoir having but one compartment, the gate-chamber has been so designed that it will act as a stand-pipe in case the water in the reservoir is drawn down for cleaning or repairs.

The work that has been done thus far has been thorough and satisfactory, and the contractors, Messrs. Dockham & Carter, have at all times evinced, not only a willingness, but a desire to comply fully with the requirements of the specifications.

DISTRIBUTING MAIN.

The pipes for the distributing main are in great part cast and delivered in Lowell.

The work of laying them upon the west side of the river has commenced within the past month. In August work upon the river-crossing began. Although the season has been a remarkably favorable one for this work, it is not yet completed. Delays have arisen from various causes, such as failure of the pumps, breaking in of the bulk-heads, giving way of dams, etc.

Near the centre of the river the water was found to be quite deep, and required the use of a coffer dam. As the bottom consisted of sand and boulders, sheetpiling could not be driven, and considerable difficulty was experienced in building the dam and holding it in place. In the more shallow water a wooden dam, consisting of frames in the shape of a figure 4, weighted with stones to hold them in place, and covered on their sloping sides with planking closely laid, was used to turn the current away from the work. Water was kept from the trench, (which at such points was 12 to 14 feet deep below the bed of the river,) by an earthern dam entirely surrounding it, made in great part with the excavated material, which fortunately proved to be well suited for such use.

The length of pipe included in the crossing is 780 feet, of which 445 feet are laid and covered.

Work will commence again as soon as the state of the river will permit, and with favorable conditions it should be completed in 4 weeks; if, however, it should be delayed from any cause, water can be brought to the city through the 12-inch pipe which is to be laid over Central bridge.

STREET DISTRIBUTION.

The work of laying the pipes in the streets was resumed for this season about the middle of March (rock excavation had been continued through the winter), and has since progressed steadily, except at times when the force was transferred to the rivercrossing.

The following lengths of the various sizes of pipes have been laid since work commenced in October, 1870:

49,525	linear	feet	of 6-inch,
22,720	"	"	" 8-inch,
14,658	44	44	"12-inch,
3,196	4.4	4.4	"16-inch,
210	44	4.4	" 24-inch,

Or in all 17.1 miles, leaving about 5 miles to be laid to complete the contracts.

There have been set 217 hydrants, and 107 stop-cocks.

At various times, but more particularly early in the season, during the progress of the investigation before mentioned, complaints were made by a number of our citizens that the pipes were not well laid, and that the back-filling was improperly done.

We believe that such complaints were without proper cause, and were unjust both to the contractor (Mr. Norman) and to ourselves.

The places where the back-filling has settled, and dangerous or inconvenient holes been formed, have been unusually few, and we are not aware that a single accident has resulted from any such settlement. They have occurred, as was to be expected, chiefly in the vicinity of the hydrants, where the material was washed under the boxes by the water running in the street gutters.

In passing along our streets it would be difficult to point out the places where the pipes are laid, so evenly has the surface of the filling been brought to its original position.

As a test of the thoroughness with which the joints have been filled and driven, we may mention that water from the reservoir of the Proprietors of

Locks and Canals has been let into 11,088 linear feet of the pipes and not a single leak has been discovered.

The removal of the rubbish left from the trenches has not always been so promptly done as we wished, but usually in such cases some misunderstanding has been the cause.

It will be seen from the foregoing statements that nearly the whole of the work is already under contract, and that its construction is well advanced. It will not be completed till the fall of 1872, as a whole season will be required to build the engine-house, but we now see no reason why water may not be introduced into the city during the coming summer.

Annexed we hand you a detailed statement of the expenditures for the last year.

Respectfully submitted.

LEVI SPRAGUE,
WM. E. LIVINGSTON,
S. K. HUTCHINSON,
Lowell Water Commissioners.

EXPENDITURES FOR THE YEAR 1871.

IRON PIPE.

Paid George H. Norman, contract closed. Jesse W. Starr & Sons			93
Amount reserved	21,702		56
Paid Freight on pipe, inspection at Foundry, labor at pipe yard, etc		6,130	
LAYING PIPE.			
Paid George H. Norman	\$44,291	84	
Amount reserved	7,816		
		\$52,108	04
Paid George H. Norman			
Amount reserved	2,434		90
Paid for inspection, etc		1,699	
1		,	
RESERVOIR.			
Paid S. Dockham & Co	\$34,499	34	
Amount reserved	5,860		
- · · · · ·		\$ 40,359	
Paid for inspection		1,078	64
BRICK CONDUIT.			
Paid George H. Norman	\$ 95,682	0.7	
Amount reserved	16,885		
		\$112,568	20
PIPE CONDUIT.			
•	#07 F45	0.0	
Paid George H. Norman	$$27,547 \\ 4,861$		
Into the reserved to the reser			38
Paid for inspection, etc		1,286	

FILTERING GALLERY.

Paid Robert Park\$101,308 21 — Amount reserved						
Paid for use of engine, teaming, lumber, etc						
Hydrants, Stop-cocks, &c.						
Paid Lowell Machine Shop \$1,310 34						
Boston Machine Co						
Cole & Nichois						
\$19,448 48						
LAND AND DAMAGE.						
Paid E. S. Davis \$ 600 00						
Daniel Saunders, Jr						
Anson Lamere						
Holden & Warren 350 35						
Sam'l N. Wood 614 63						
Eleanor Goding 593 82						
E. P. Woods						
Levi Sprague						
Jason Goodhue						
John P. White						
\$12,019 31						
SALARIES.						
Levi Sprague \$2,000 00 Brought Forward \$3,972 21						
H. H. Wilder 750 00 Alfred Gilman 222 20						
Wm. E. Livingston. 1,000 00 Joseph S. Holt 566 61 Sam'l K. Hutchinson. 222 21						
Total \$4,761 02						
Carried Forward \$3,972 21						
ENG.NEERS.						
J. P. Davis, Engineer. \$3,874 96 Brought Forward \$11,554 73						
Geo. E. Evans, Ass't 1,800 00 F. H. Spaulding 310 00						
James H. Harlow. " 1,800 00 Geo. W. Blodgett 158 50 D. W. Cunningham " 1,350 00 Horace D. Chapin 262 00						
George S. Rice 895 77 C. H. M. Blake 697 60						
Chas. W. Drake 960 00 J. P. Kirkwood, C. E. 1,161 00						
E. S. Davis 874 00 Hiram F. Mills 75 00						
Carried Forward\$11,554 73 Total\$14,218 83						

ENGINEERING EXPENSES.

Levi Sprague L. S. Burbank Lowell Gas Light Co. F. W. Lincoln G. W. Wilson Joshua Merrill F. P. Coggeshall Fiske & Spalding Sam'l Convers	\$ 14 02 5 00 7 42 30 50 22 50 1 40 92 63 27 95 24 97	Brought Forward. \$655 09 G. S. Butters. 79 00 Adams & Co 54 52 J. E. Conant. 250 00 H. H. Wilder & Co 19 74 H. O. Morse 5 50 John Mehan 7 80 Chase, Sargent & Shattuck 4 50				
Joseph P. Davis	31 85	Bennett & Rodliff 19 87				
Fielding & Bartlett Joseph S. Holt	$\begin{array}{c} 3 & 00 \\ 121 & 37 \end{array}$	Wm. Kittredge 3 50 John G. Allen 8 50				
Geo. W. Pearson	21 48	Jacob Rogers & Co 14 41				
D. G. Leavitt	251 00	Benj. H. Peabody 5 50				
Carried Forward	\$655 09	Total \$1,127 93				
OFFICE EXPENSES, INCLUDING FURNITURE, STATIONERY, FUEL, &c.						
H. R. Barker & Co	\$ 50	Brought Forward \$547 80				
Boston Daily Journal	10 50	Win. E. Livingston 22 25				
Fiske & Spalding	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Joseph S. Holt 13 96 Geo. W. Pearson 1 12				
Levi Sprague Adams & Co	$\begin{array}{c} 2 & 30 \\ 42 & 33 \end{array}$	H. H. Wilder & Co. 14 00				
J. Merrill & Sou	1 00	Boston Daily Advert'r 11 00				
Thos. Costello	6 45	F. P. Coggeshall 4 75				
Wm. Kittredge	19 25	B. H. Penhallow 7 00				
John Corner	1 00	Brown & Chase 4 85				
Merchants Nat'l Bank	450 00	Daniel Gage 10 00				
Lowell Gas Light Co.	10 97	Garity & Winegard 1 53				
Carried Forward	\$547 80	Total \$638 26				
	PRINTI	NG, ETC.				
Marden & Rowell	\$163 75	Brought Forward \$633 35				
Boston Daily Advert'r	75 75	Brown & Chase 5 25				
Knapp & Morey	204 10	Amer'n Bank Note Co 150 00				
Stone & Huse	189 75	Total \$788 60				
Carried Forward	\$633 35	, groo 00				
	TRAVELLIN	G EXPENSES.				
Levi Sprague \$43 35						
Joseph P. Davis		53 40				
o occipia z i z territo i i i i i						
Total		\$96 75				

ENGINE FOUNDATION.

Pay Roll	\$7,166	97	Brought Forward\$15,444	81
Geo. W. Pearson	263	03		47
S. Dockham & Co		71	Runels & Davis 506	
Warren C. Crosby	881	25		00
Fielding & Bartlett	111	30		00
Wm. E. Livingston	3,903	03		51
Norcross & Saunders.	347	06	Phillip Sargent 3,264	
H. A. Hildreth	10	00		49
Levi Sprague	9	80		00
I. Leavitt	7	00	Robert Park 213	85
H. Hosford & Co		67	S. G. Mack & Co 30	00
Howes & Burnham	1,186	32	Stanley & Co 46	00
H. H. Wilder & Co		00	L. J. Richards 673	00
H. R. Barker & Co		92	Carlton & Simpson. 2,070	
J. S. Holt	15	75		38
J. S. Holt	10	10	John Dutchel 10	90
Carried Forward	15 444	81	Total\$22,504	50
Carried 107 wards sq	,10,111	O1	10001	00
EN	GINE A	ND I	ENGINE HOUSE.	
E. D. Leavitt	\$134	37	Brought Forward \$553	95
Fred. Graff			"	00
	200			15
	300			15
Levi Sprague	300 119	58	N. J. Bradlee 600	
Levi Sprague	119	58	N. J. Bradlee 600	00
		58		00
Levi Sprague	119	58	N. J. Bradlee 600	00
Levi Sprague	119	58	N. J. Bradlee 600	00
Levi Sprague	\$553	58 95	N. J. Bradlee 600	00
Levi Sprague	\$553	58 95	N. J. Bradlee 600 Total \$1,188	00
Levi Sprague Carried Forward	119 \$553 MISC	58 95 EELL	N. J. Bradlee 600 Total \$1,188	10
Carried Forward H. H. Wilder & Co	119 \$553 MISC	58 95 EELL	N. J. Bradlee 600 Total \$1,188 ANEOUS. Brought Forward \$ 54	10
Carried Forward H. H. Wilder & Co J. F. McEvoy	\$553 MISC \$ 6 40	58 95 SELL 00 00	N. J. Bradlee 600 Total \$1,188 ANEOUS. Brought Forward \$ 54 D. G. Leavitt 24	10 50 00
Levi Sprague Carried Forward H. H. Wilder & Co J. F. McEvoy Bacheller & Dumas	\$553 MISC \$6 40 5	58 95 SELL 00 00 50	N. J. Bradlee 600 Total \$1,188 ANEOUS. Brought Forward \$ 54 D. G. Leavitt 24	10
Carried Forward H. H. Wilder & Co J. F. McEvoy	\$553 MISC \$6 40 5	58 95 SELL 00 00	N. J. Bradlee	50 00 00
Levi Sprague Carried Forward H. H. Wilder & Co J. F. McEvoy Bacheller & Dumas	\$553 MISC \$6 40 5	58 95 SELL 00 00 50	N. J. Bradlee 600 Total \$1,188 ANEOUS. Brought Forward \$ 54 D. G. Leavitt 24	50 00 00
Levi Sprague Carried Forward H. H. Wilder & Co J. F. McEvoy Bacheller & Dumas	\$553 MISC \$6 40 5	58 95 EELL 00 50 00	N. J. Bradlee	50 00 00

RECAPITULATION.

Iron Pipe	\$192,239	84		
Laying Pipe	59,786			
Reservoir	35,577	98		
Conduit	124,517	56		
Filtering Gallery	101,609			
Hydrants, Stop-Cocks, &c	19,448			
			\$533,180	01
Land and damage	12,019			
Salaries	4,761	02		
Engineers	14,218			
Engineering expenses	1.127			
Office expenses	638			
Printing, etc	788			
Travelling expenses	96			
Engine foundation	22,504			
Engine and engine house	1,188			
Miscellaneous	110			
THIS COLLECTION OF THE PARTY OF	110	00	57,453	90
			01,400	00
			\$590,633	81
Add charges from other appropriations.			$\psi 0 0 0,000$	
Add charges from other appropriations.			17	00
			\$590,651	66
Deduct for pipe press	\$2,000	٥٥	φουσ,σοι	00
Freight on pipe	1,933			
Hydrants, etc., sold	465			
ilydrants, etc., sold	400	04	4 200	10
			4,398	10
			\$586,253	56
			,	

SMALL-POX IN LÖWELL.

REPORTS

OF THE

BOARD OF HEALTH,

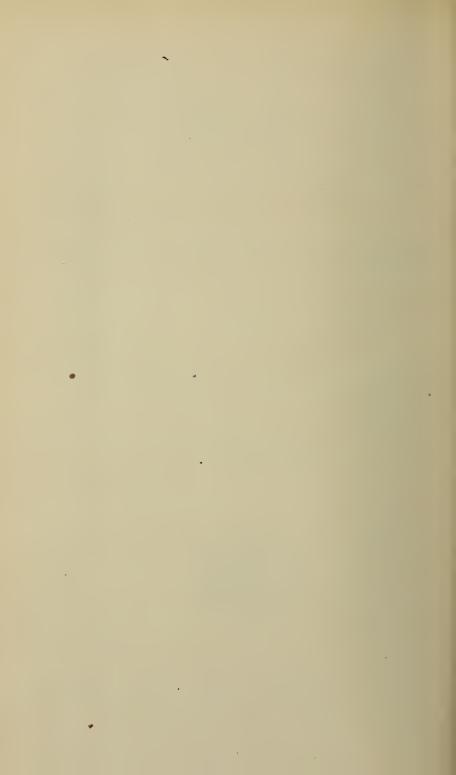
AND OF THE

CONSULTING PHYSICIANS,

AS ACCEPTED BY THE CITY COUNCIL, DECEMBER 12TH, 1871.



LOWELL, MASS.: STONE & HUSE, BOOK AND JOB PRINTERS, 21 CENTRAL STREET. 1871.



Report of Board of Health.

To the City Council:

The special business for which the present Board of Health was elected in September having been, as is believed, mainly completed, and indulging in the opinion that the experience gained in the suppression and eradication of the small-pox from our city, may become valuable in future, and perhaps interesting at the present time, it would seem to be due to the City Council and the public that a statement of the facts connected therewith should be made.

The Board of Health, therefore, submit the following report:

The epidemic known as small-pox commenced in January last, and began early in the summer to attract the serious attention of our citizens, amounting to an alarm as it spread through the different localities in our city.

Many left the city; people from surrounding towns were deterred from coming here with their products and for business purposes, and the commercial and other business enterprises of our city became almost paralyzed.

Through a variety of reasons to which it is now only necessary to advert, the old Board of Health resigned on the 15th of September and the new one was elected.

At a time when the epidemic was raging to an alarming extent, we found ourselves declared the Board of Health,—thus having imposed upon us onerous duties and a grave responsibility, against our will and most earnest protest.

This condition of affairs induced us to examine carefully the official situation into which we had been forced, our duty to the

public and the cause of humanity; and we could not escape the conviction that it was due to the citizens of Lowell that prompt and efficient action should be immediately instituted; and being fully satisfied that we were invested with ample powers under the law, we determined to accept the office and undertake the extermination of the disease from our city, and accordingly organized for that purpose, on the 18th day of September, by the choice of Abel T. Atherton, Secretary—Frederick Ayer having been elected Chairman by the City Council.

With the least possible delay, the Board of Health called to their counsel and assistance Doctors John W. Graves, Gilman Kimball, Nathan Allen, Walter Burnham, Hiram Parker, Francis C. Plunkett, and John H. Gilman—who organized by the choice of Dr. John W. Graves, Chairman, and Dr. John H. Gilman, Secretary, and were styled the Board of Consulting Physicians. Under their direction twelve other physicians entered upon the work of vaccination, each having a certain section of the city assigned to him.

The work of isolation was commenced immediately by removing as many of the most exposed cases as the hospital would accommodate, and by placing signals and police to prevent communication with each remaining case.

It became evident that complete isolation in the streets of our city was next to impossible, and additional hospital accommodations were provided, when all existing cases, that were movable, were removed, and all new cases were removed as soon as reported.

The removal or dismissal of each case was followed by the destruction of material, and most thorough fumigation of persons and premises.

At first there was much opposition on the part of patients and members of their families to being removed to the hospital, and in quite a number of instances it became necessary to resort to legal measures, for the public safety; but when the City Hospital was transferred by the Overseers of the Poor to the Board of Health, the services of a resident physician at the hospital having been seemed in the person of Dr. A. W. Buttrick, who proved well qualified for the position, and several Sisters of Charity having volunteered their services as nurses, the devotion of whom to the sick was only equalled by their disinterested kindness to all under their care, these objections were almost wholly removed, and through the influence of physicians, removals were made without much further difficulty.

In fact, after the management and treatment at the hospital became known, patients were anxious to be taken there, and not oversolicitous to leave, after they were discharged.

Two cases have been prosecuted and fined for concealment, and four cases for refusing to be vaccinated. This determined action greatly expedited the work of the vaccinating physicians, and enabled them to make it much more complete.

Since the organization of our Board, on the 18th of September, there have been reported 221 cases of varioloid and small-pox.

The greatest number of patients at the hospitals at any one time was 108. To-day there are 4 patients in the City Hospital, and none in the Corporation Hospital. The last case was reported on the 24th instant.

Meetings of the Board of Health and of the Board of Consulting Physicians were held with much frequency during the first weeks of their organization, and until the epidemic had subsided, and both Boards were characterized with great unanimity of action, which fact, we think, sufficiently indicates their one-fold purpose.

The wagon and bedding used for conveying patients were thoroughly funigated after each trip, and before they were returned to the city. A smoke-house was established adjoining the Board of Health office, in which physicians and all other persons known to have been handling patients, or visiting infected places, were required to be funigated, to prevent exposure to other people. In fact, every precaution that could be suggested to prevent the spread of the disease was adopted and enforced.

The result of this concentrated action is shown in the complete extermination of the epidemic and an almost entire eradication of the disease, and in short, is due,

1st. To the prompt report of cases and suspected cases to the Board.

2nd. To the removal and isolation of all cases as soon as reported.

3rd. To the immediate destruction or thorough fumigation of all infected material, and the thorough fumigation of all infected persons and premises.

4th. To every other precautionary measure to prevent the spread of the disease, that could be devised; and

5th. To vaccination.

The working force has been gradually reduced until there are now employed only three persons to care for the few patients remaining at the hospital, and to continue the organization needful for the prompt removal of those scattering cases which it is probable may occasionally appear.

By vote of the Board of Health, on the 23rd of October, the Consulting Physicians were requested to prepare a report, giving a history of the small-pox epidemic in Lowell and the means employed to eradicate the disease.

That report has been prepared with much care, and will, we think, be found a valuable sanitary document. It goes so fully into the origin, progress and decline of the disease in our city, and the statistics are therein given in such detail, that we deem it unnecessary to incorporate them at length in this report, but beg to refer to the accompanying report of the Consulting Physicians.

Respectfully submitted.

FREDERICK AYER,
HENRY C. HOWE,
BENJ. WALKER,
H. C. CHURCH,
ABEL T. ATHERTON,

Lowell, Mass., November 28th, 1871.

THE SMALL-POX EPIDEMIC

IN LOWELL.

At a meeting, October 30th, of the Consulting Physicians, the undersigned were appointed a Committee to prepare a Report upon the small-pox epidemic, in compliance with a request from the Board of Health; and the following Report, having been prepared, was unanimously adopted by the Consulting Physicians, November 27th, and is herewith transmitted to the Board of Health.

NATHAN ALLEN, GILMAN KIMBALL, J. W. GRAVES.

ITS HISTORY AND EXTENT.

There appears to be some uncertainty respecting the origin of this disease in our city. It made its first appearance in a family by the name of Kennedy, on Mill Street, in January last. This family, with the exception of the father, who had been a resident of Lowell some six months previously, arrived in Boston from Liverpool and came directly to Lowell. This family were all in apparent good health, and no contagious disease was known to exist in the vessel in which they came over. Furthermore, all the family had been vaccinated in England. Some two weeks after their arrival, a girl, eight years of age, was taken ill with an eruptive disease, which was supposed to be scarlet fever. Ten days after, a boy, three and a half years of age, was taken sick and died on the 29th of January. His death was reported as caused by scarlet fever. No physician had been in attendance, and no small-pox was suspected until some days after his burial.

At this time a child living near by was taken sick, and a suspicion arose that it might be a case of small-pox. The proper authorities were notified, an investigation was made, and the case was found to be one of small-pox. The Kennedy girl had at this time the eruption remaining on her face, which still

bears the distinctive marks of the disease. The presumption at first would seem to be, that the disease was contracted on her passage, or on her arrival in Boston; but another and more probable interpretation of it is, that it was contracted through the use of a second-hand mattress, which had been bought at auction, just before the arrival of this family, and which had every appearance of having had hard service. Both the Kennedy children slept on this mattress. No other cases occurred at the time in the neighborhood, but the disease soon appeared in a number of other and distant localities. The City Physician reported on the 10th of April that thirty-five cases had then come to his knowledge. From this date to May 16th we are unable to obtain the exact number of new cases, but judge there may have been from fifteen to twenty. On the 16th of May a record was commenced at the City Marshal's office. This record shows as follows: From May 16th to June 1st, twenty-one cases; in the month of June, thirty-two cases; in July, sixty-one cases; in August, ninetythree cases; and from September 1st to the 24th, one hundred and forty-three cases, when this record closes.

The account then continues as follows, under the new Board of Health: From September 24th to October 1st, we find sixty-nine cases reported, making a total of two hundred and twelve in the month of September. From October 1st to November 1st, ninety-four cases; since that date, six cases. This comprises in the aggregate five hundred and seventy cases, but this by no means includes the whole number growing out of the epidemic. During the season many persons in the city had slight attacks of varioloid and even small-pox, with more or less eruption, which cases, either through ignorance or intention, were never reported. At three different times it has been directly communicated to the State Almshouse in Tewksbury, where thirty of its inmates were attacked with the disease; and in five or six of the neighboring towns nearly thirty cases of varioloid or small-pox have occurred, during the season, which are traceable directly to our city. The disease has also broken out in Maine, New Hampshire, Vermont and Rhode Island, in each of which States it is alleged that the infection was brought from Lowell.

The number of deaths from this disease corresponds with the spread of the epidemic. The first death reported from small-pox occurred February 20th, the patient being a child under two years of age. The first death actually occurring and reported as scarlet fever, took place January 29th. The report of the Superintendent of Burials gives the following record of deaths from small-pox: March four, April six, May seventeen, June eight, July twenty-two, August twenty-nine, September afty-five, October thirty, and November one, making in all one hundred and seventy-two. To this should be added five or six deaths, reported under the name of other diseases, which are well known to have been caused primarily, if not wholly, by this epidemic. Then we should add to this list the number of deaths occasioned by the communication of this disease in other places. In this class some fifteen deaths can be traced, including ten in the State Almshouse, at Tewksbury. This brings the whole mortality up to one hundred and ninety-two persons, of all ages and conditions, but the great majority of deaths were among the young. There were only eight over 50 years of age, and the number between 30 and 40 was not large; whereas there were thirty-one deaths of infants under 1 year, forty-seven children between 1 and 5, fifty-two persons between 5 and 20, and forty-two between 20 and 30. These

statistics show that the great majority of those dying of small-pox were either young or in the prime of life, and that they were not so weil protected by vaccination, or at that age are more susceptible to the disease. This also harmonizes with the general fact that eruptive diseases are more common with the young than with the middle-aged or the more advanced in life.

MEANS EMPLOYED TO ERADICATE THE DISEASE, (BY THE OLD BOARD OF HEALTH.)

Early in February, when the small-pox was first discovered, an effort was made by the Board of Health to place the infected district under quarantine, by hanging out the red flag, by barricading the streets, and by preventing communication with the district. But in a short time the disease appeared in so many new localities, that all attempt at isolation was abandoned. Where parties would tolerate its appearance, the red flag became the signal of the existence of the disease, and at the same time, almost the only barrier to its extension. Physicians were notified by the Board of Health to comply with the law in reporting all cases of small-pox or varioloid coming under their observation, and a record of the same was kept at the City Marshal's office, after the middle of May.

On the 10th of April the Board of Health ordered a general vaccination throughout the city under the direction of the City Physician. There were vaccinated at this time about eight thousand persons, and during the summer, one thousand more. As the small-pox steadily increased, efforts were made by the Board, the City Physician and City Marshal, to induce persons attacked with the disease to be removed to the hospital provided by the city. But few would consent to such removal, and the Board of Health considered that they had no right, or legal power, to cause such removals.

At sundry times the public were assured by official authority, that the number of cases of small-pox in the city was very limited, and the expectation was held out that the epidemic would soon come to an, end.

ACTION OF THE MEDICAL SOCIETY.

On the 26th of July, at a regular meeting of the District Medical Society, the small-pox epidemic came up for discussion, under a resolution setting forth that no Board of Health could be properly constituted without a representation in the same by one or more members of the medical profession, and that the orders emanating from such a Board, as well as the laws upon sanitary measures, would be most efficiently executed by their coöperation. It was generally conceded by the physicians present at this meeting, that the small-pox, at that time, was actually on the increase in the city. Some members thought the profession had been unjustly censured by the public, for doing no more to check the progress of the disease, while others were sure that their advice and counsels, with reference to suppressing the epidemic, were wholly ignored by those having charge of this most important department of the public welfare. The opinion was very generally expressed at this meeting that by proper measures this epidemic could be suppressed in a short time; and with the desire of having some

efficient measures taken in this direction, the following resolution was unanimously passed:

"That in view of the present condition of our city, in regard to the prevalence of small-pox, we, as members of the medical profession, respectfully suggest that, in our opinion, in order to effectually suppress or control the disease referred to, a distinct commission should be created by the City Government, whose exclusive duty it should be, so long as may be necessary, to do all in their power, by proper and legal means, to get rid of the disease now existing in our midst."

By some inadvertence this resolution was addressed to the City Council, when it was intended for the Board of Health and was delivered to its chairman. Whatever may have been its reception in this Board, or its results in the action of the City Government, it was certainly dictated and adopted, on the part of the medical fraternity, after much discussion, with the kindest spirit and best wishes. This resolution was presented immediately to the Board of Health which, (after determining that it had no power to make such changes,) transmitted the same to the City Council at its meeting, September 12th, a lapse of nearly six weeks intervening. After considerable discussion in the Council, this resolution was referred to a committee to consider and report upon, at an adjourned meeting, September 15th. This committee made a report to the City Council, introducing a new ordinance, providing for a temporary health commission, consisting of six persons - one from each Ward - with particular reference to the removal of the small-pox. But as it was thought by some that the operation of such a commission might conflict with the action of the Board of Health, another ordinance, with some changes, was proposed and adopted, which virtually displaced the old Board and led to the establishment of the new one. In the meantime the agitation of the subject, in the community, resulted in petitions to the City Government, extensively signed, urging them to take immediate measures for checking the progress of the disease. Thus the action taken by the Medical Society became, unexpectedly, the occasion of an important change in the City Council.

NEW BOARD OF HEALTH.

Up to the time of the election of the present Board of Health, the small-pox had materially increased and was then prevailing more than ever. From the 15th of September (the date on which the new Board was elected) to the 22nd, one week, seventy-eight new cases were reported. There must have been in the city at this time, outside of the hospitals, considerably more than one hundred cases, and the number was increasing at the rate of ten daily, on an average. The Board of Health organized September 18th and at once appointed a Board of Consulting Physicians to coöperate with it, the latter taking the medical part of the business in charge. Both bodies commenced work in earnest, meeting three times daily. Provision was made for a thorough course of vaccination and re-vaccination throughout the city, under the law requiring it once in five years. Under their direction fourteen thousand nine hundred and forty-one persons were vaccinated and re-vaccinated. In addition to these, the City Physician was vaccinating during the same period.

ISOLATION,

or removal of all cases of small-pox and varioloid from the city, was another cardinal principle recommended by the Consulting Physicians, and adopted by the Board of Health. As the hospital provided for small-pox, by the city, was immediately filled, another building was commenced, and in a short time two additions were made to the same. As fast as accommodations could be provided, cases were removed, so that in ten or twelve days it contained nearly one hundred patients, including all that were in a condition to be removed. This complete isolation was considered of the first importance in checking the disease. A thorough system of fumigating, cleansing and ventilating all rooms and dwellings where cases of small-pox or varioloid had been known to exist, was adopted. Signals, by means of a red flag by day, and a red light by night, were employed to designate localities where the disease existed. Police officers were also stationed at such places, to prevent communication and exposure, and the public was recommended not to frequent infected districts, and to avoid public gatherings, places of amusement, &c. A recurrence to the figures will at once show the effect of these agencies in arresting the progress of this disease. According to the best estimate made there were over forty cases in February, March, and April; in May there were twenty-one cases, June thirty-two, July sixtyone, August ninety-three, September two hundred and twelve, and in October ninety-four. But a weekly report for the months of September and October will exhibit the change more correctly, both as to increase and decrease. The first week in September there were twelve cases, second week forty-two, third week seventy-eight, fourth week sixty-six; first week in October fifty-three, second week twenty-four, third week twelve, fourth week seven, and first week in November one. Isolation of cases was commenced on the 19th of September, but could not be made complete, for want of the necessary room, until about the 25th of September; hence the best effects could not be seen until the second and third week in October, allowing fourteen days for the disease to develop, after the exposure. The third week in September showed seventy-eight cases; the second week in October twenty-four; the last week in September sixty-six; and the third in October twelve. Nearly all the cases occurring since, can be traced directly to the exposure from some previous case.

SMALL-POX HOSPITAL.

This building is located on the grounds of the city, about fifty rods from the Almshouse. The first case was removed there February 14th. The admissions afterwards were as follows: March, two; April, five; May, five; June, three; July, thirteen; August, fifteen; September, twenty-five; up to the commencement of the new Board of Health.

Dr. A. W. Buttrick was appointed resident physician at the hospital. One or more of the Consulting Physicians visited the hospital daily. From the above it will be seen that from February 14th to September 19th, there were sixty-seven inmates at the hospital, of which number nineteen died, making a rate of mortality of one in three and fifty-three hundredths. From September 19th to October 1st, sixty patients were admitted, nineteen being carried there in one day, the

27th. From October 1st to November 1st, ninety-two cases were admitted, commencing with forty-three the first week, and closing the month with nine for the last week. The first week in November only one case was sent. The greatest number at any one time was ninety-two. Of the one hundred and fifty-two persons admitted from September 19th to November 7th, thirty-two have died, making the rate of mortality one in four and seventy-five hundredths. The whole number of cases taken to the hospital, from the commencement of the epidemic, was two-hundred and twenty-six.

CORPORATION HOSPITAL.

The whole number of cases taken to this hospital was fifty-four, of which eleven died, making the rate of mortality one in five, minus a small fraction. All but five of these patients came from the corporations. This institution, now under the charge of Dr. J. W. Graves, proved an important auxiliary to other means, in limiting the spread of the disease. As on other similar occasions in past years, its wards have been thrown immediately open to any case that appeared among the operatives. The benefits derived from this arrangement have never been more marked than in connection with this recent epidemic.

MORTALITY OUTSIDE THE HOSPITALS.

The whole number of patients removed to the hospitals was two hundred and seventy-four, leaving two hundred and nincty-three cases reported outside. The number of deaths in the hospitals was sixty-two, making the rate of mortality nearly one in four and forty-six hundredths; but one hundred and ten deaths outside makes the rate of mortality about twice as large. In extenuation of this fact, it may be stated that some of the patients who died were too sick to be removed, but after making all due allowance, the facts present an argument in favor of the more successful treatment at the hospitals.

LEGAL MEASURES EMPLOYED.

For the purpose of more speedily and effectually cradicating the small-pox from our city, it became indispensable, in some instances, for the Board of Health to resort to legal measures for the enforcement of vaccination, removals, and in some instances reports of cases which were being concealed. The Board acted successfully under the following sections, which we quote from the General Statutes of our Commonwealth, and in which they found full powers to meet the emergency. They are as follows:

ABSTRACTS OF LAWS OF THE COMMONWEALTH RELATING TO HEALTH.

"Two Justices of the Peace may, if need be, issue a warrant directed to the Sheriff, his Deputy, or any Constable, requiring them, under the direction of the Board, to remove any person infected with contagious sickness, or to impress and take up convenient houses, lodging, nurses, attendants, and other necessaries, for the accommodation, safety and relief of the sick.

- "When a householder knows that a person within his family is taken sick of smallpox, or any other disease dangerous to the public health, and shall neglect to give immediate notice thereof to the Board of Health, he shall forfeit a sum not exceeding one hundred dollars.
- "When a physician knows that any person whom he is called to visit is infected with small-pox, or any other disease dangerous to the public health, and refuses or neglects to give immediate notice thereof to the Board of Health, he shall forfeit for each offence a sum not less than fifty nor more than one hundred dollars.
- "Parents and gnardians who neglect to cause their children or wards to be vaccinated before they attain the age of two years, and re-vaccinated after five years from the last vaccination, and all persons over twenty-one years of age, not under gnardianship, who neglect to be vaccinated, shall forfeit the sum of five dollars.
- "The Board of Health may notify occupants of unfit dwelling-houses, requiring the premises to be properly cleansed, and if they see fit, the occupants to remove therefrom as soon as the Board of Health may prescribe; and any person who occupies or knowingly permits any premises to be occupied after having been cleansed, without permission in writing from the Board of Health, shall forfeit a sum not less than ten dollars nor more than fifty dollars.
- "For every neglect of the owner or occupant of private property to remove filth or cause of sickness found on his premises within twenty-four hours, or such other time as the Board deem reasonable, after notice shall have been served, he shall forfeit the sum of twenty dollars for every day during which he permits such unisance or cause of sickness to remain after the time prescribed for the removal thereof, and the Board of Health may cause the nuisance or cause of sickness to be removed at the expense of the owner or occupant.
- "Whoever violates any regulation made by the Board of Health for the public health and safety, respecting nuisances, sources of filth and causes of sickness, and respecting articles which are capable of containing or conveying infection or contagion, or of creating sickness, brought into or conveyed from the city, shall forfeit a sum not exceeding one hundred dollars.
- "When, upon the application of the Board of Health, it appears to a Justice of the Peace that there is cause to suspect that any Juggage, clothing, or goods, found within the town, are infected with the plague, or other disease, which may be dangerous to the public health, the Justice shall, by warrant, directed to the Sheriff or his Deputy, or to any Constable, require him to impress so many men as said Justice may judge necessary, to secure such baggage, clothing, or other goods, and to post said men as a guard over the house or place where such articles are lodged. The officers, in the execution of the warrant, shall, if need be, break open any house, shop, or other place, mentioned in the warrant, where such articles are, and may require such aid as is necessary to effect the execution of the warrant."

THE COMPARATIVE RESULTS OF THE AGENCIES EMPLOYED.

Our experience in dealing with the present epidemic compels us to place isolation before vaccination. The latter has not seemed to afford that protection which has usually been ascribed to it. At particular stages of the epidemic this agency did not arrest the progress of the disease as was expected. Neither in individual cases, has it prevented persons, apparently well vaccinated, from having a violent, and in several instances, a fatal attack of the small-pox. A careful examination of quite a number of very grave cases, at the hospitals, distinctly showed marked cicatrices—some large, well-pitted, and made, as the patients said, by inoculation for the small-pox itself, or by virus from the cow-

pox. Still, there were other patients where the discase was much modified rendered lighter in form, or shorter in duration — by the effects of vaccination. Then, in many instances, where individuals (including several infants) were subjected to the greatest exposure, and had recently been successfully vaccinated, they were perfectly protected. But the most striking proof of the protection of vaccination has been found on the Corporations. Under the direction of their agents, a more systematic and thorough course of vaccination has been pursued among the operatives, and others connected with the Mills, than clsewhere in our city. The rule has always been to remove every case of small-pox or varioloid to the Corporation Hospital as soon as discovered. From the commencement of this epidemic in February, only forty-nine persons have been taken to the Corporation Hospital from the mills or boarding-houses, and in no instance have other parties, exposed at the time, taken the disease. Twenty of these forty-nine were female operatives, and only two died. It is true, however, that some operatives not boarding in the Corporation boarding-houses have been carried to the City Hospital, and others, prior to September 25th, have had the disease at their own homes, but this number is not large. As those connected, in some way, with the mills, comprise one-third or more of the population of the city, the proportionate number sick with small-pox or varioloid from this class has been, relatively, very small.

It may be said that the uniform and prompt removal of all cases of small-pox and varioloid from the Corporations, also favors the doctrine of isolation, which is true. Another argument in favor of vaccination, however, may be deduced from the fact that very few school-children had the disease, the rule of admission requiring evidence of vaccination always having been rigidly enforced. While, therefore, we are constrained to place isolation as the most successful agency in arresting the epidemic, we would by no means undervalue the importance of vaccination, when property performed.

Of two things we are more fully convinced than ever — 1st, of the frequent imperfection of this operation, either in the manner of doing it, or of some defect in the virus used; and 2nd, in the absolute necessity of re-vaccination.— 1st, that its protective power gradually diminishes with the changes taking place in the human body, and therefore, to test its continuance, re-vaccination becomes occasionally necessary; or the other theory, that frequently the first vaccination may not be complete, and therefore it should soon be repeated and continued until it produces no effect. Then its protective power continues for life.

Complete isolation was regarded, in the outset, as an indispensable measure, and experience has shown that this could only be accomplished by removal to the Hospitals.

By recurring to the rapid decline of the epidemic, from September 25th to October 25th, it will be seen how quickly the removal of cases arrested the disease, reducing the number from seventy-eight in the third week of September, to twelve in the third week of October, and to one only for the second week after that. The decrease in the number of deaths shows this sudden decline in a more striking manner. It should be borne in mind that removals were not fully made and isolation rendered complete, until the last of September. In that month there were fifty-five deaths; in the first half of October, twenty-three; last half, seven, and only one, thus far, in November. It is true that, whenever

a case was removed, the members of the family and all others, in any way exposed, were at once re-vaccinated. Besides this, as has been stated, such premises were promptly fumigated, and such clothing, bedding, &c., as could not be disinfected, was destroyed. To such an extent was this preventive treatment carried, that even the vaults connected with dwellings where cases of small-pox and varioloid had existed, were disinfected under the direction of an experienced chemist. Thus, by these means, this terrible epidemic, attacking over two hundred persons in one month, and causing fifty-five deaths in the same time, has been almost entirely eradicated in a little more than six weeks. This demonstrates what skill and science can do, sustained by wise management and efficient action.

SUGGESTIONS.

This sad record of disease and mortality has its lessons of admonition and instruction. When this epidemic first made its appearance, our people were, unfortunately, but poorly protected against its ravages. There had been no general vaccination, by official authority, for six or seven years, and, in the meantime, an entire change had taken place in nearly one-third of our inhabitants. Besides, the mixed character of our population, composed as it is largely of young persons, renders it more necessary that a thorough course of vaccination, by official order, should be resorted to frequently, as a safeguard against the disease. Again, our Boards of Health, as usually constituted, are not chosen with any particular reference to special qualifications to insure intelligent and efficient action — are changed almost entirely every year, and no compensation is allowed for services thus rendered. The medical profession, as such, has not been represented upon this Board for many years, and even the City Physician is not a member of it. We have a superintendent of streets, of buildings, of city scales, and of burials, but no superintendent of public health. city been provided with such an officer, or had the advice of some of our oldest and most experienced physicians been followed, at the time, we believe the present epidemic would have been suppressed in its incipient stages. The city expends money liberally, every year, to protect property and make improvements of various kinds, but nowhere do we find any appropriation directly for the prevention of disease, or the preservation of human life. The City Physician and City Marshal are, to be sure, charged in the ordinances with certain health duties, but they always have enough else to engage their time and attention, and neither is chosen with any special reference to qualifications in this particular department of public service. Neither can it be expected that such important duties will be properly performed, under a sense of personal responsibility to the public, without the appointment of suitable officers, accompanied with an adequate compensation. Let the suggestion be seasonably heeded.

We cannot close this report without expressing, in behalf of the public, the great obligations due the Board of Health, for its prompt and energetic action, in co-operating with the Consulting Physicians in suppressing the epidemic.



INSTRUCTIONS

FOR CONTROLLING SMALL-POX CONTAGION,

ADOPTED BY THE BOARD OF HEALTH, OF THE CITY OF LOWELL, MASS.

ISOLATION.

- Persons attacked with small-pox or varioloid, and all infected clothing of the same, must be immediately separated from all other persons liable to contract or communicate the disease.
 - 2. Nurses and the infected clothing of such persons must be treated as in quarantine.
- 3. None but nurses, and the attending physicians, will be allowed access to persons sick with small-pox or varioloid.
- 4. Patients must not leave the premises until they, together with the bedding and clothing, have been disinfected, and permission given by some Physician of the Board of Health.

DISINFECTION.

- 1. All bedding and personal clothing infected with the small-pox contagion, which can without injury, must be washed in boiling water.
- 2. Infected feather-beds, pillows, and hair mattresses, must have contents taken out and thoroughly fumigated, and ticks washed in boiling water.
- 3. Infected straw and excelsior mattresses must have contents removed and buried, and ticks washed in boiling water.
- 4. Infected blankets, sheets and pillow-cases, and all articles in contact with, or used by the patient, must be washed in boiling water.
- 5. Personal clothing and bedding, particularly comforters, which cannot be wet without injury, must be disinfected by baking or by fumigation.
- 6. Instead of using boiling water as the disinfectant, the following chemical process with cold water may sometimes be conveniently substituted: Dissolve in a wash-tub, containing eight gallons of cold water, one pound of the hyposulphite of soda, immerse all the articles of clothing and bedding used by or around the patient, and when thoroughly saturated add half a pint of sulphuric acid, first diluting it with one gallon of water; stir the whole and allow the clothes to soak an hour, then wring them out, rinse three times in cold water, and hang out to dry.
- 7. Disinfection of houses, clothing and bedding by fumigation may be effected by filling the closed rooms with the fumes of sulphurous acid, or chlorine gas. The first can be accomplished by putting half a pound of sulphur in an iron dish, pouring on a little alcohol and igniting it, thereby causing the sulphur to burn and give off sulphu-

rous acid fumes. The second can be accomplished by moistening with water four pounds of chloride of lime, contained in an earthen or wooden vessel, and adding thereto a pint of muriatic acid, to liberate the chlorine gas. Clothing and bedding, to be well fumigated, must be separated as much as possible, and hung upon the walls and furniture of the room, so that everything will be thoroughly permeated. The rooms should be kept closed an hour or two after being charged with gas by either method, and then thoroughly ventilated. No attempt should be made to fumigate the sick-room in this manner, while it is occupied by the patient.

- 8. On the recovery, removal or death of every case of small-pox or varioloid, the clothing, bedding, and premises will be disinfected, in accordance with the above rules, under the direction of one or more physiciaus employed for the purpose by the Board of Health.
- 9. The physicians employed in disinfecting may cause the removal, destruction, or burial of such infected bedding and clothing as may, in their judgment, seem to require it, of which they shall keep a correct record, with date, kind of article, whether new or old, estimated value, name and residence of the owner. No person shall burn any contagioned articles unless authorized by the Board of Health.
- 10. The sick-room should be kept well ventilated, with such precautions as not to expose the patient to direct currents of air, and should be occasionally funnigated, slightly, by throwing upon a heated surface a few teaspoonfuls of a solution of carbolic acid, made by dissolving one onuce of crystalized carbolic acid in a quart of rain water. Pieces of cloth may be soaked in this solution, and suspended in the room, also in the hallways adjoining. All vessels for receiving discharges of any kind from patients, must be emptied immediately after use, and cleansed with boiling water. When convalescence has taken place, the patient must be thoroughly washed in warm water and soap, and put on fresh, clean clothes throughout.
- 11. Privies, water-closets, garbage-tubs, water-pipes, and all kinds of drains and foul places in honses, stables, and yards, may be disinfected with a solution made as follows. Dissolve eight pounds of copperas (snlphate of irou) in five gallons of water, add one quart of the solution of carbolic acid, and mix well.
- 12. It should be remembered that there are no substitutes for pure air and water. Let fresh air and sunlight purify every place they can reach; open and dry all cellars; keep the grounds about dwellings dry and cleau, and let personal and domestic cleanliness be everywhere observed.

VACCINATION,

and re-vaccination, is of paramonut importance, affording the best attainable protection against small-pox, and mitigating its severity when not preventing an attack.

Voted, That we recommend the foregoing instructions, prepared by the committee, consisting of Dr. J. W. Graves, Chairman, and Dr. J. H. Gilman, Secretary, be adopted by the Board of Health.

JOHN W. GRAVES,
GILMAN KIMBALL,
NATHAN ALLEN,
WALTER BURNHAM,
HIRAM PARKER,
FRANCIS C. PLUNKETT,
JOHN H. GILMAN,

Voted, That the foregoing instructions, recommended by the Board of Consulting Physicians, and adopted by this Board, be printed for general distribution.

FREDERICK AYER,
H. C. HOWE,
BENJ. WALKER,
H. C. CHURCH,
ABEL T. ATHERTON,

October, 1871.







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